



Explication du test inter-
laboratoires international du
CSITC

Dernières évolutions
et
Démarche qualité du LTC

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Formation en technologie cotonnière

Afrique Francophone
du 14 au 25/10/2013



Plan of presentation

Plan de présentation

■ Existing tests

■ CSITC RT

■ Data for one instrument

■ Evaluation principle

■ Charts

■ Influences

■ Example

■ Another example

■ On the long run

■ Last minute...

■ Tests actuels

■ CSITC RT

■ Données d'un instrument

■ Principe d'évaluation

■ Graphes

■ Influences

■ Exemple

■ Autre exemple

■ Dans le temps

■ Dernière minute ...



Existing Round Trials

Tests inter-laboratoires existants

- USDA: HVI Checktest
 - Faserinstitut Bremen:
Bremen Cotton Round Trial
 - CSITC Round Trial
 - Additional round trials
(regional / not regular / not
public)
- All Round Trials have their own importance, they cannot replace each other
- USDA: HVI Checktest
 - Faserinstitut Bremen:
Bremen Cotton Round Trial
 - CSITC Round Trial
 - Autres tests (régional / non
réguliers / privé)
- Chaque test a son importance, et ils ne se remplacent pas l'un l'autre



Existing Round Trials – Attributes (1)

Critères des tests existants

Attribute	USDA HVI Checktest	Bremen Round Trial	CSITC Round Trial
Number of participants	50 to 80 HVIs	100 to 120 HVIs	60 to 80 HVIs increasing
Start	?	1950s	2007
Region	Worldwide	Worldwide	Worldwide
Kinds of instruments	High Volume Testing	All kinds	High Volume Testing
Costs for participation	Charged	Free	Subsidized charge
Cottons: Origin and type	USA; Upland	World; broad range of prop.	USA / world; Upland or similar
Frequency	12 times/year	4 times/year	4 times/year
Number of samples	2 samples	1 sample	4 / 5 samples



Existing Round Trials – Attributes (2)

Critères des tests existants

Attribute	USDA HVI Checktest	Bremen Round Trial	CSITC Round Trial
Aim	Information for the laboratory	Information for the laboratory	Official laboratory evaluation and detailed analysis for the laboratory
Evaluation of	Laboratory average	Laboratory average	Laboratory average and all single data
Evaluation of Trueness	Yes	Yes	Yes
Evaluation of precision	No	No	Yes
Detailed evaluation	No	No	Yes
Official grading result	No	No	Yes



Bremen Cotton Round Trial

- 4 times per year
- Approx. 180 participants
- Participants from approx. 50 countries
- Including all cotton test methods
- Financed by the Bremen Cotton Exchange
- Free participation for all laboratories worldwide

FASERINSTITUT BREMEN e.V.
LABORATORIUM FÜR BAUMWOLLE
BREMEN, 15.04.2004

BREMER BAUMWOLL - RUNDTEST 2004 / 1
an International Service of the
BREMER COTTON EXCHANGE

Evaluation of the Test Results

Tested Cotton: Greece Number of Laboratories: 160

Argentina	2	Kazakhstan	1
Australia	1	Latvia	1
Austria	1	Maroc	1
Azerbaijan Republic	1	The Netherlands	1
Belgium	1	Pakistan	4
Bosnia / Herzegovina	1	Poland	3
Brazil	6	Portugal	2
Bulgaria	-	Russia	1
Burkina Faso	-	Slovenia	3
Cameroon	1	South Africa	1
China, PR	9	Spain	5
Colombia	1	Sudan	1
Cuba	-	Sweden	1
Czech Republic	5	Switzerland	6
Egypt	4	Syria	1
France	4	Tanzania	1
Georgia	1	Thailand	2
Germany	23	Tunisia	1
Greece	8		
Hong Kong	2		
Hungary	1		
India	22		
Iran	3		
Israel	1		
Italy	7		
Ivory Coast	-		
Japan	1		

Faserinstitut Bremen - Baumwollbörse Postfach 105807 D - 28058 Bremen

Interlaboratory CV	HVI	Pressley (0)	Almeter	AFIS
Micronaire	3			
Fineness				3,7
Maturity				
Strength	6,1	4,7		
Elongation	15,1			
Length and Uniformity	1,6/1,1			
Mean Length			7,6	5,4
Short Fibre Content	31,6		36	18,2
Color	1,7/4,1			
Trash	>100% ²			
Neps				15,4
Stickiness				

Based on Bremen Cotton Round Trial 1997 to 2001

MICRONAIRE

Lab.	Mic.	Lab.	Mic.	Lab.	Mic.	Lab.	Mic.	Lab.	Mic.
8	3.3	42	3.4	101	3.3	142	3.4	181	3.1
8	3.0	48	3.3	102	3.1	146	3.3	183	3.2
10	3.3	49	3.2	102	3.1	147	3.2	186	3.1
12	3.3	49	3.3	107	3.2	152	3.3	188	3.2
16	3.1	50	3.1	114	(4.2)	153	3.3	189	3.3
17	3.2	52	3.2	118	3.2	155	3.3	190	3.3
18	3.4	56	3.1	124	3.2	161	3.0	191	3.3
20	3.2	61	3.1	126	3.2	162	3.1	193	3.3
29	3.2	64	3.2	127	3.2	167	3.2	196	3.2
32	3.4	65	3.3	128	3.3	168	3.2	199	3.4
35	3.5	67	3.2	129	3.3	169	3.2	201	3.4
37	3.4	70	3.3	135	3.4	170	3.1	205	3.2
37	3.5	76	3.5	138	3.1	170	3.1	207	3.2
40	3.3	79	3.3	139	3.3	171	3.5		
42	3.3	82	3.2	140	3.3	177	3.3		

$\sigma = 3.25$ $s = 0.11$ $cv = 3.5\%$ $n = 72$



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CSITC Round Trial Configuration

Configuration du test CSITC

- For the CSITC Round Trial, very **intense testing** is necessary for each lab:
 - 4 Round Trials per year with each 4 or 5 different cotton samples,
 - 50 tests for each laboratory / 30 tests for each cotton
 - all single data is evaluated (900 results for each laboratory)
- Since 2007
- On CSITC TF recommendations
- Pour le test CSITC, des **tests intensifs** sont nécessaires pour chaque laboratoire :
 - 4 tests par an avec 4 ou 5 cotons par test,
 - 150 tests par laboratoire / 30 tests par coton
 - tous les résultats sont évalués (900 résultats par laboratoire)
- Depuis 2007
- Sur recommandations du CSITC TF



CSITC Round Trial Configuration

Configuration du test CSITC

	Cotton 1	Cotton 2	Cotton 3	Cotton 4		<i>Cotton 5</i>
day 1	6 tests	6 tests	6 tests	6 tests		<i>6 tests</i>
day 2	6 tests	6 tests	6 tests	6 tests		<i>6 tests</i>
day 3	6 tests	6 tests	6 tests	6 tests		<i>6 tests</i>
day 4	6 tests	6 tests	6 tests	6 tests		<i>6 tests</i>
day 5	6 tests	6 tests	6 tests	6 tests		<i>6 tests</i>
Sub Total	30 tests	30 tests	30 tests	30 tests		<i>30 tests</i>
Total	150 tests for each Round Trial					

- Cotton 1 to cotton 4 are used to evaluate laboratories reliably
- Cotton 5 offers the chance to include cottons with different behaviour / from different origins
- Les cotons 1 à 4 servent à évaluer la performance des laboratoires
- Le coton 5 permet d'inclure d'autres types de cotons ou d'autres origines



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Results for one instrument

Résultats d'un instrument

CSITC Round Test							Cotton 1						
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
Temp 22.2 RH 65	1	4.8	27.25	0.951	79.85	77.7	8.6						
	2	4.81	27.8	0.999	80.1	77.65	8.8						
	3	4.88	29	1.011	81.1	77.15	8.7						
	4	4.87	27.8	0.999	81.8	76.3	8.75						
	5	4.92	27.75	0.997	80.7	76.4	8.85						
	6	4.85	27.95	1.007	80.4	76.75	9.05						
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
Temp 22.2 RH 64.8	1	4.85	29.1	0.995	81.7	77.75	8.55						
	2	4.85	27.5	0.996	81.15	76.55	8.85						
	3	4.85	28.6	1.011	79.9	77	8.55						
	4	4.78	27.85	1.014	80.65	76.9	8.95						
	5	4.8	28.15	1.009	81.1	77.5	8.8						
	6	4.93	27.75	1.008	81.15	77.8	8.75						
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
Temp 22.1 RH 65	1	4.8	28.95	0.991	80.55	76.8	8.6						
	2	4.77	28.1	1	80.95	77.55	8.8						
	3	4.8	27.45	1.033	81.3	77.75	8.75						
	4	4.85	27.9	1.015	81.15	76.75	8.55						
	5	4.83	28.15	1.018	81.35	76.2	8.6						
	6	4.82	27.6	1.033	81	76.9	8.6						
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
Temp 22 RH 64.9	1	4.88	28.55	1.014	79.85	77.5	8.75						
	2	4.83	28.55	1.026	81.45	77.3	8.7						
	3	4.8	28.25	1.002	81.05	77.55	8.5						
	4	4.88	28.35	0.982	81.5	77.25	8.55						
	5	4.83	27.8	0.991	80.8	76.7	8.7						
	6	4.8	27.55	1.024	80.8	77.3	8.7						
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
Temp 21.9 RH 64.9	1	4.88	28.95	0.995	80	77.6	8.75						
	2	4.86	27.65	1.002	81.5	78.15	8.55						
	3	4.83	27.8	1.033	81.35	77.9	8.55						
	4	4.82	28.5	0.971	80.6	77.6	8.65						
	5	4.78	27.7	0.988	79.65	77	8.75						
	6	4.84	28.7	1	80.4	77.65	8.65						

CSITC Round Test							Cotton 2						
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	4.23	35.45	1.124	83.2	76.9	12.15						
	2	4.25	35.3	1.167	83.7	76.2	12.15						
	3	4.2	35.85	1.167	82.7	76.25	12.2						
	4	4.2	36.55	1.19	83.5	76.1	12.25						
	5	4.27	36.3	1.192	82.7	76.1	12.4						
	6	4.18	36.2	1.162	83.55	76.25	12.15						
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	4.29	36.3	1.166	83.65	75.9	12.4						
	2	4.25	35.3	1.192	83.45	76.4	12.3						
	3	4.23	35.75	1.191	83	76.15	12.3						
	4	4.25	35.7	1.165	84.05	75.45	12.45						
	5	4.32	36	1.173	83.9	76.4	12.4						
	6	4.26	35.7	1.181	84.65	76.95	12.3						
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	4.23	36.15	1.147	84.6	75.25	12.3						
	2	4.31	34.75	1.163	83.55	75.7	12.1						
	3	4.29	35.9	1.18	84.3	75.75	12.35						
	4	4.29	36.5	1.174	84.05	75.4	12.2						
	5	4.27	35.6	1.201	83.65	75.3	12.55						
	6	4.34	37.65	1.176	83.6	75.5	12.4						
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	4.27	33.85	1.187	84.15	75.75	12.35						
	2	4.28	35.35	1.188	83.85	75.65	12.35						
	3	4.27	35.45	1.181	84.4	75.6	12.1						
	4	4.22	36.7	1.162	83.75	74.05	11.9						
	5	4.28	35.8	1.169	84.25	75.35	12.35						
	6	4.24	35	1.196	83.25	75.4	12.45						
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	4.28	35.15	1.183	84.2	74.45	12.35						
	2	4.24	35.65	1.193	83.95	74.6	12.15						
	3	4.29	35.45	1.18	83.95	74.45	11.95						
	4	4.24	36.15	1.16	84.05	74.7	12.15						
	5	4.2	34.25	1.207	83.1	74.8	12.15						
	6	4.25	36.3	1.152	84.5	75	12.25						

CSITC Round Test							Cotton 3						
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	3.79	27.7	1.021	80.75	76.6	13.85						
	2	3.71	28.45	1.031	80.35	76.45	13.9						
	3	3.78	27	1.004	80.3	76.7	13.85						
	4	3.78	28.8	1.094	80.4	76.85	13.85						
	5	3.74	27.3	1.053	80.65	76.45	13.9						
	6	3.87	28.2	1.034	80.45	76.75	13.85						

CSITC Round Test							Cotton 3						
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	3.82	28.05	1.059	81	76.65	13.85						
	2	3.84	27.7	1.047	81.15	76.55	13.85						
	3	3.86	28.3	1.12	80.95	76.75	13.95						
	4	3.81	27.15	1.023	80.4	76.75	13.85						
	5	3.87	27.5	1.047	80.3	76.7	13.85						
	6	3.87	28.2	1.034	80.45	76.75	13.85						

CSITC Round Test							Cotton 3						
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	3.78	27.25	1.031	81.4	76.65	13.9						
	2	3.73	27.45	1.017	79.95	76.95	14						
	3	3.82	28.15	1.058	80.3	76.5	13.75						
	4	3.81	28.05	1.01	80.3	76.75	13.75						
	5	3.81	28.05	1.05	80.7	76.3	13.75						
	6	3.78	28.25	1.048	82.05	76.1	13.7						

CSITC Round Test							Cotton 3						
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	3.75	27.4	1.024	81.3	76.65	13.95						
	2	3.76	28.4	1.073	79.85	76.5	13.9						
	3	3.75	27.3	1.017	79.15	76.6	13.85						
	4	3.76	28.4	1.022	80.9	76.7	13.9						
	5	3.77	28.5	1.046	80.05	76.7	13.7						
	6	3.77	28.5	1.046	80.05	76.7	13.7						

CSITC Round Test							Cotton 3						
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b						
	1	3.78	27.05	1.034	81	77	13.75						
	2	3.89	27.05	1.088	81.2	76.75	13.9						
	3	3.8	28.35	1.083	80.35	76.85	13.85						
	4	3.77	28.2	1.027	80.35	76.95	13.6						
	5	3.8	27.1	1.038	81.65	76.75	13.75						
	6	3.72	28.35	1.05	81.6	76.65	13.75						

CSITC Round Test				Cotton 4			
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.15	24.5	0.98	79.1	75.1	12.45
	2	4.12	24	0.967	78.75	75	12.45
	3	4.12	24.2	0.988	79.15	75.4	12.3
	4	4.14	23.55	0.959	79.15	74.5	12.35
	5	4.15	23.4	0.938	78.35	74.65	12.65
	6	4.15	23.45	0.967	79.25	74.65	12.4



Results for one instrument Résultats d'un instrument



GeneralEvaluation_GL132.pdf

InstrumentEvaluation_GL132063-2.pdf

InstrumentEvaluation_GL132063-3.pdf

RTCert_GL132063.pdf

■ 13 => 2013

■ 2 => 2nd test in 2013

■ 063=> randomised
LabID each quarter

■ 2=> machine n° 2

■ 13 => 2013

■ 2 => 2nd test en 2013

■ 063=> LabID tiré au
hasard chaque
trimestre

■ 2=> machine n° 2



Results for one instrument

Résultats d'un instrument

Since test 2011-3,
presentations of the results
has changed to the following
according to CSITC TF
recommendations

CSITC

Global - Round Trial 2011 - 3
Instrument Evaluation for: GL113-069-02

Section One: Instrument Test Results and Detailed Analysis

Section Two: Instrument Evaluation/Rating

Section Three: Within Limits Evaluation

Section One: Instrument Test Results and Detailed Analysis

Content:

- Instrument Test Results and Comparison
- Detailed Analysis of Results
 - Accuracy
 - Precision

Depuis le test 2011-3, la
présentation des résultats a
changé comme suit selon les
recommandations du CSITC
TF

CSITC

Global - Round Trial 2011 - 3
Instrument Evaluation for: GL113-069-02

Section Une: Résultats des instruments et analyses détaillées

Section deux: Evaluation et classement des instruments

Section trois: Evaluation par rapport aux limites

Section Une: Résultats des instruments et analyses détaillées

Contient:

- Résultats des instruments et comparaison
- Analyse détaillée des résultats
 - Justesse
 - Précision



Results for one instrument Résultats d'un instrument

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presentations of the results
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CSITC

Global - Round Trial 2011 - 3

Instrument Evaluation for: GL113-069-02

Section One: Instrument Test Results and Detailed Analysis

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Content:

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CSITC

Global - Round Trial 2011 - 3

Instrument Evaluation for: GL113-069-02

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Section Une: Résultats des instruments et analyses détaillées

Contient:

- Résultats des instruments et comparaison
- Analyse détaillée des résultats
 - Justesse
 - Précision



Results for one instrument

Résultats d'un instrument

Vers.: 3.1.11

GL 2010-1 LABORATORY EVALUATION P. 7

11.03.2010

Performance of Laboratory 026-02							
		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Reference Values	Cotton 1	4,492	29,015	1,1093	81,549	78,432	9,887
	Cotton 2	4,290	32,916	1,1874	83,393	77,436	12,051
	Cotton 3	4,307	27,894	1,1357	82,607	71,084	8,476
	Cotton 4	5,059	28,725	1,1153	83,514	74,722	14,448
	Cotton 5	4,142	29,720	1,1428	82,936	78,580	9,251
Laboratory Average of All Days	Cotton 1	4,505	29,187	1,0973	80,777	80,427	9,443
	Cotton 2	4,324	33,690	1,1823	82,707	78,563	11,653
	Cotton 3	4,350	27,307	1,1217	81,823	72,867	8,233
	Cotton 4	5,118	27,423	1,1137	83,257	76,320	14,110
	Cotton 5	4,173	31,137	1,1380	82,467	80,300	8,923
Rel. Distance to Reference	Cotton 1	0,013	0,171	-0,0119	-0,773	1,994	-0,444
	Cotton 2	0,033	0,774	-0,0051	-0,686	1,127	-0,397
	Cotton 3	0,043	-0,587	-0,0140	-0,783	1,783	-0,243
	Cotton 4	0,059	-1,301	-0,0017	-0,258	1,598	-0,338
	Cotton 5	0,031	1,417	-0,0048	-0,469	1,720	-0,328
Mean Absolute Distance to Reference (Cotton 1 - 4 only)		0,037	0,708	0,0082	0,625	1,626	0,355
Scale Factor		0,10	1,50	0,02	1,00	1,50	0,50
Summary Evaluation for Each Property		0,37	0,47	0,41	0,63	1,08	0,71
Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
Summary Evaluation of All Properties		0,61					

Number of outliers in submitted test data:

Parameter	Allowed Range	Number of total outliers in your submitted test data
Micronaire	1.5 to 8	0
Strength	15 to 60 g/tex	0
Length	0.7 to 1.7 inches 17.78 to 43.18 mm	0
Uniformity	60 to 100	0
Color Rd	40 to 90	0
Color +b	4 to 18	0
Total number		0



Results for one instrument

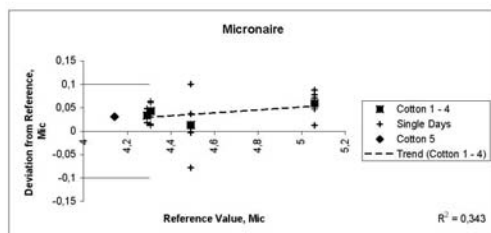
Résultats d'un instrument

Vers.: 3.1.11

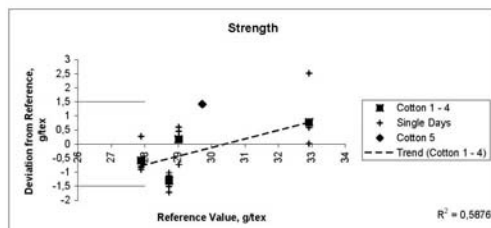
GL 2010-1 LABORATORY EVALUATION P. 8

11.03.2010

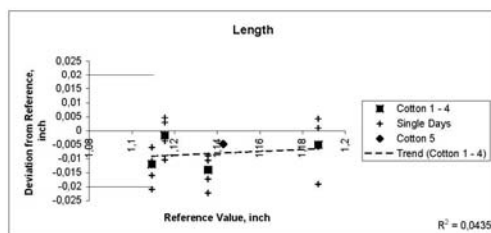
Detailed Analysis
Accuracy Evaluation
Laboratory 026-02



Comments
Offset:
Slope:
Additional:



Comments
Offset:
Slope:
Additional:

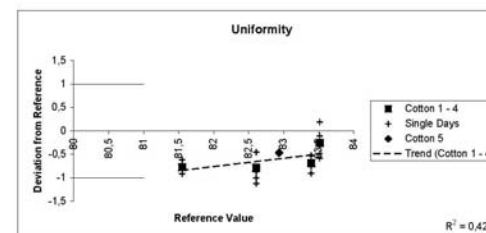


Comments
Offset:
Slope:
Additional:

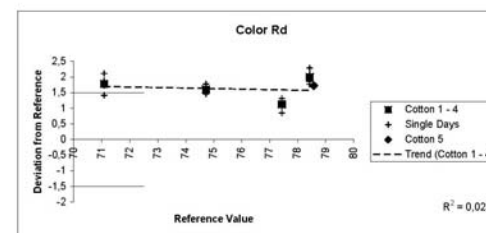
Vers.: 3.1.11

GL 2010-1 LABORATORY EVALUATION P. 9

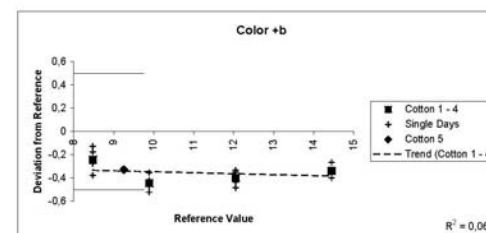
11.03.2010



Comments
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General Comments:



Results for one instrument

Résultats d'un instrument

Micronaire								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			3.179	3.395	4.210	4.199	5.413
between different days each with 8 tests	Median variation of all instruments	SD	0.024	0.022	0.023	0.023	0.027	0.027
	Variation of your instrument	SD	0.014	0.022	0.007	0.008	0.019	0.020
	Ratio (your variation divided by median variation)	-	0.6	1.0	0.3	0.3	0.7	0.7
between single tests on one day	Median variation of all instruments	SD	0.033	0.032	0.030	0.034	0.035	0.043
	Variation of your instrument	SD	0.023	0.023	0.019	0.024	0.025	0.031
	Ratio (your variation divided by median variation)	-	0.7	0.7	0.6	0.7	0.7	0.7
between all tests on different days	Median variation of all instruments	SD	0.043	0.041	0.043	0.044	0.045	0.049
	Variation of your instrument	SD	0.026	0.030	0.019	0.024	0.031	0.036
	Ratio (your variation divided by median variation)	-	0.6	0.7	0.4	0.5	0.7	0.7

Strength								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			30.807	29.426	33.007	33.897	26.182
between different days each with 8 tests	Median variation of all instruments	SD	0.380	0.366	0.369	0.420	0.367	0.297
	Variation of your instrument	SD	0.421	0.444	0.448	0.366	0.427	0.440
	Ratio (your variation divided by median variation)	-	1.1	1.2	1.2	0.9	1.2	1.5
between single tests on one day	Median variation of all instruments	SD	0.581	0.641	0.564	0.573	0.546	0.500
	Variation of your instrument	SD	0.689	0.754	0.630	0.502	0.870	0.453
	Ratio (your variation divided by median variation)	-	1.2	1.2	1.1	0.9	1.6	0.9
between all tests on different days	Median variation of all instruments	SD	0.696	0.727	0.653	0.729	0.673	0.586
	Variation of your instrument	SD	0.775	0.831	0.718	0.583	0.967	0.589
	Ratio (your variation divided by median variation)	-	1.1	1.1	1.1	0.8	1.4	1.0

Length								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			1.078	1.123	1.217	1.230	0.981
between different days each with 6 tests	Median variation of all instruments	SD	0.006	0.005	0.005	0.006	0.006	0.006
	Variation of your instrument	SD	0.005	0.003	0.008	0.005	0.005	0.005
	Ratio (your variation divided by median variation)	-	0.9	0.6	1.5	0.8	0.8	1.0
between single tests on one day	Median variation of all instruments	SD	0.010	0.010	0.010	0.010	0.010	0.011
	Variation of your instrument	SD	0.011	0.009	0.011	0.013	0.010	0.010
	Ratio (your variation divided by median variation)	-	1.1	0.9	1.1	1.2	1.0	0.9
between all tests on different days	Median variation of all instruments	SD	0.011	0.011	0.011	0.012	0.011	0.012
	Variation of your instrument	SD	0.011	0.009	0.013	0.013	0.011	0.010
	Ratio (your variation divided by median variation)	-	1.0	0.8	1.2	1.1	1.0	0.9

Uniformity								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			80.563	81.637	83.375	83.708	80.689
between different days each with 8 tests	Median variation of all instruments	SD	0.272	0.305	0.269	0.278	0.236	0.281
	Variation of your instrument	SD	0.211	0.098	0.223	0.317	0.207	0.210
	Ratio (your variation divided by median variation)	-	0.8	0.3	0.8	1.1	0.9	0.7
between single tests on one day	Median variation of all instruments	SD	0.495	0.524	0.486	0.499	0.470	0.506
	Variation of your instrument	SD	0.502	0.523	0.385	0.607	0.493	0.492
	Ratio (your variation divided by median variation)	-	1.0	1.0	0.8	1.2	1.0	1.0
between all tests on different days	Median variation of all instruments	SD	0.553	0.596	0.539	0.555	0.524	0.556
	Variation of your instrument	SD	0.519	0.504	0.430	0.642	0.502	0.508
	Ratio (your variation divided by median variation)	-	0.9	0.8	0.8	1.2	1.0	0.9

Color Rd								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5



Results for one instrument Résultats d'un instrument

Since test 2011-3,
presentations of the results
has changed to the following
according to CSITC TF
recommendations

CSITC

Global - Round Trial 2011 - 3

Instrument Evaluation for: GL113-069-02

Section One: Instrument Test Results and Detailed Analysis

Section Two: Instrument Evaluation/Rating

Section Three: Within Limits Evaluation

Section Two: Instrument Evaluation/Rating

Content:

- Overall Evaluation
- Single Property Evaluation

Depuis le test 2011-3, la
présentation des résultats a
changé comme suit selon les
recommandations du CSITC
TF

CSITC

Global - Round Trial 2011 - 3

Instrument Evaluation for: GL113-069-02

Section Une: Résultats des instruments et analyses détaillées

Section deux: Evaluation et classement des instruments

Section trois: Evaluation par rapport aux limites

Section deux: Evaluation et classement des instruments

Contient:

- Evaluation globale
- Evaluation par caractéristique



Results for one instrument

Résultats d'un instrument

Vers.: 3.1.11

GL 2010-1 LABORATORY EVALUATION P. 1

11.03.2010

Laboratory Evaluation
- Combined Properties -
According to ICAC CSITC Task Force Recommendations
Round Trial No.: GL 2010-1

Lab.: 026-02

	Lab. No.	Evaluation Combined Prop.
Your Evaluation	026-02	0,61

Statistics		Evaluation Combined Prop.
	Average	0,58
	Median	0,54
	Best Lab.	0,20
	Worst Lab.	1,96

- table is divided into 2 pages -

No.	Lab. No.	Evaluation Combined Prop.
1	063-01	0,20
2	071-01	0,20
3	060-01	0,26
4	069-07	0,28
5	083-04	0,29
6	083-03	0,30
7	026-01	0,32
8	017-02	0,35
9	069-02	0,36
10	009-07	0,36
11	037-03	0,36
12	048-01	0,36
13	077-01	0,37
14	027-02	0,37
15	016-02	0,38
16	059-06	0,38
17	087-01	0,39
18	016-01	0,42



Results for one instrument

Résultats d'un instrument

Vers.: 3.1.11

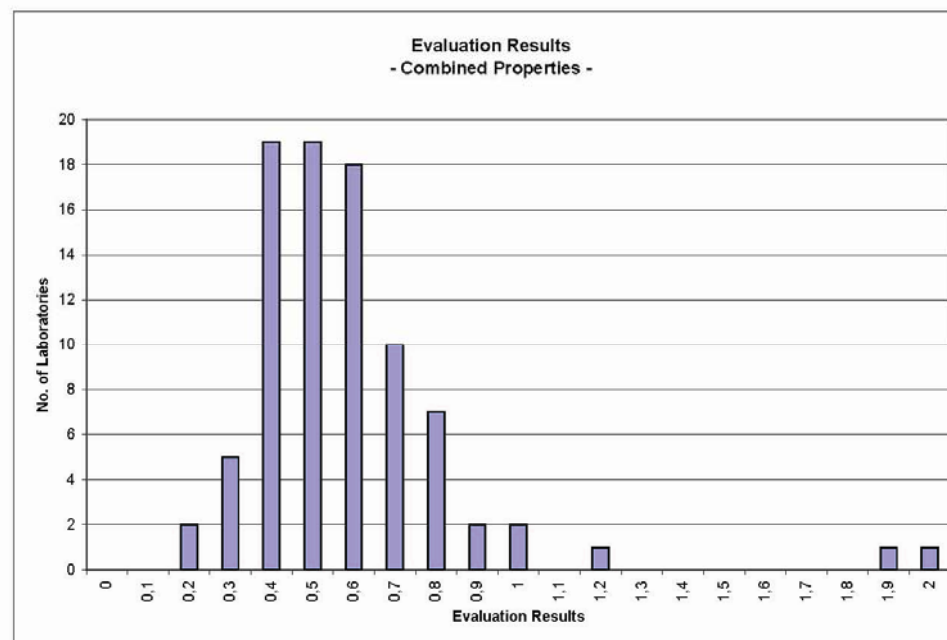
GL 2010-1 LABORATORY EVALUATION P. 3

11.03.2010

Laboratory Evaluation Lab.: 026-02
- Graph of Combined Properties -
According to ICAC CSITC Task Force Recommendations
Round Trial No.: GL 2010-1

	Lab. No.	Evaluation Combined Prop.
Your Evaluation	026-02	0,61

Statistics		Evaluation Combined Prop.
	Average	0,58
	Median	0,54
	Best Lab.	0,20
	Worst Lab.	1,96



x-Axis shows midpoints of classes
The evaluation results are entered based on the unrounded values



Results for one instrument

Résultats d'un instrument

Vers.: 3.1.11

GL 2010-1 LABORATORY EVALUATION P. 4

11.03.2010

Laboratory Evaluation Lab.: 026-02
- Single Properties -
According to ICAC CSITC Task Force Recommendations
Round Trial No.: GL 2010-1

Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71

Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,66
Median	0,68	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18

No.	Lab. No	Evaluation Micronaire	Lab. No	Evaluation Strength	Lab. No	Evaluation Length	Lab. No	Evaluation Uniformity	Lab. No	Evaluation Color Rd	Lab. No	Evaluation Color +b
1	083-03	0,15	069-07	0,11	060-01	0,07	027-02	0,06	060-01	0,07	086-02	0,05
2	060-01	0,15	083-03	0,14	069-07	0,07	029-01	0,12	067-01	0,11	002-01	0,08
3	086-03	0,18	069-02	0,15	027-02	0,08	063-01	0,14	071-01	0,11	071-01	0,09
4	087-01	0,18	063-01	0,16	069-02	0,11	041-01	0,15	026-01	0,13	026-01	0,12
5	059-06	0,18	014-01	0,16	039-01	0,13	030-01	0,15	048-01	0,15	056-01	0,14
6	063-01	0,19	059-06	0,16	034-01	0,14	071-01	0,15	018-01	0,17	029-01	0,15
7	024-01	0,22	059-05	0,19	049-01	0,14	026-01	0,16	046-01	0,17	010-02	0,15
8	077-01	0,22	027-02	0,21	071-01	0,15	020-03	0,17	027-02	0,17	077-01	0,16
9	079-01	0,25	083-04	0,22	048-01	0,15	016-02	0,18	037-03	0,18	066-01	0,16
10	083-04	0,26	003-01	0,24	088-01	0,16	040-01	0,18	034-01	0,18	009-07	0,19
11	092-01	0,28	065-02	0,24	040-01	0,17	084-01	0,18	009-06	0,18	044-01	0,23
12	076-01	0,29	030-01	0,25	063-01	0,17	077-01	0,19	063-01	0,18	016-01	0,23
13	071-01	0,29	065-01	0,26	044-01	0,18	019-01	0,19	066-01	0,19	049-01	0,24
14	017-01	0,29	020-03	0,26	027-01	0,19	047-01	0,19	062-01	0,20	075-01	0,24
15	041-02	0,30	027-04	0,26	084-01	0,21	039-01	0,20	030-02	0,21	080-01	0,27
16	009-07	0,33	047-01	0,27	029-01	0,21	062-01	0,20	027-04	0,22	074-01	0,30
17	030-02	0,35	037-03	0,27	078-01	0,24	004-01	0,20	017-02	0,22	078-01	0,31
18	089-01	0,35	017-02	0,27	014-01	0,24	034-01	0,20	092-01	0,23	017-02	0,31
19	066-01	0,36	072-01	0,27	020-03	0,24	024-01	0,21	009-07	0,23	090-01	0,32
20	090-01	0,36	005-01	0,28	083-03	0,24	010-01	0,21	039-01	0,27	031-01	0,32
21	042-01	0,36	046-01	0,29	061-01	0,26	023-01	0,21	010-02	0,28	027-04	0,32
22	067-02	0,37	056-01	0,31	089-01	0,26	027-04	0,21	016-02	0,28	027-01	0,33
23	026-02	0,37	060-01	0,32	016-01	0,27	086-03	0,21	067-02	0,28	013-01	0,34
24	026-01	0,37	016-02	0,33	077-02	0,28	083-04	0,24	083-04	0,29	042-01	0,34
25	069-07	0,38	086-03	0,33	013-01	0,30	018-01	0,24	087-01	0,30	059-06	0,34
26	049-01	0,41	087-01	0,34	090-01	0,30	076-01	0,25	014-01	0,30	092-01	0,34
27	050-01	0,41	048-01	0,35	037-03	0,30	009-07	0,26	040-01	0,31	089-01	0,35
28	019-01	0,43	009-06	0,35	050-01	0,31	050-01	0,28	075-01	0,33	046-01	0,36
29	086-01	0,43	009-07	0,36	010-01	0,31	077-02	0,28	080-01	0,34	063-01	0,36
30	069-02	0,43	074-01	0,36	041-01	0,32	057-01	0,29	002-01	0,35	091-01	0,37
31	091-01	0,45	010-02	0,36	008-01	0,32	059-06	0,29	016-01	0,35	083-04	0,37
32	008-01	0,46	076-01	0,36	065-02	0,32	027-01	0,29	024-01	0,36	014-01	0,38
33	013-01	0,47	029-01	0,37	065-01	0,32	049-01	0,29	021-01	0,40	037-03	0,38
34	037-03	0,47	049-01	0,38	049-05	0,32	069-07	0,29	041-02	0,41	016-02	0,38

Results for one instrument

Résultats d'un instrument

Vers.: 3.1.11

GL 2010-1 LABORATORY EVALUATION P. 6

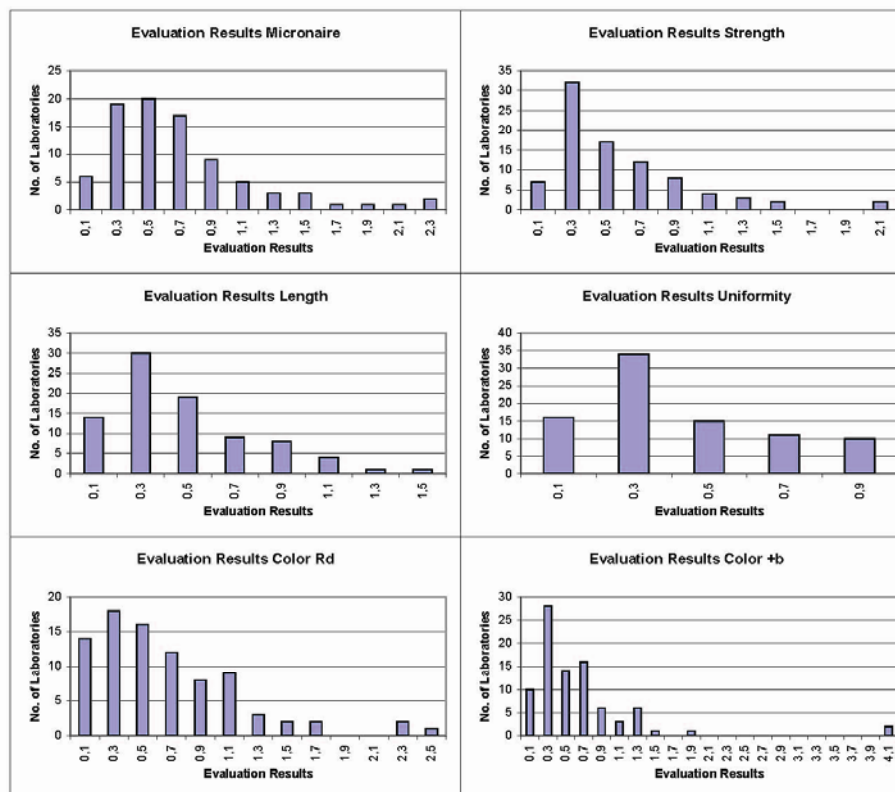
11.03.2010

Laboratory Evaluation Lab.: 026-02
 - Graph of Single Properties -
 According to ICAC CSITC Task Force Recommendations
 Round Trial No.: GL 2010-1

Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71

Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,66
Median	0,58	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18



x-Axis shows midpoints of classes
 The evaluation results are entered based on the unrounded values



Results for one instrument Résultats d'un instrument

Since test 2011-3,
presentations of the results
has changed to the following
according to CSITC TF
recommendations

Depuis le test 2011-3, la
présentation des résultats a
changé comme suit selon les
recommandations du CSITC
TF

CSITC

Global - Round Trial 2011 - 3
Instrument Evaluation for: GL113-069-02

Section One: Instrument Test Results and Detailed Analysis

Section Two: Instrument Evaluation/Rating

Section Three: Within Limits Evaluation

Section Three: Within Limits Evaluation

Content:

- Based on Average of 30 Test Results
- Based on Single Test Results

CSITC

Global - Round Trial 2011 - 3
Instrument Evaluation for: GL113-069-02

Section Une: Résultats des instruments et analyses détaillées

Section deux: Evaluation et classement des instruments

Section trois: Evaluation par rapport aux limites

Section trois: Evaluation par rapport aux limites

Contient:

- Résultats basés sur moyennes de 30 tests
- Résultats basés sur les résultats des tests individuels



Results for one instrument

Résultats d'un instrument

Within Limits Evaluation

Based on average of 30 test results for each sample

Your Evaluation	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-069-02	100	100	100	100	100	100

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20	2.0	0.030	2.0	1.5	1.0
	units	g/tex	inch	%	units	units
Average % Results within Limits	97.0	92.3	96.7	99.6	86.4	95.1
% of Instruments Completely within limits	95.6	83.1	91.2	98.5	76.5	89.4

Instrument	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-002-03	100	100	100	100	75	100
GL113-002-04	100	100	100	100	100	100
GL113-003-01	100	100	100	100	100	100
GL113-004-01	100	100	100	100	100	75
GL113-005-01	100	100	100	100	100	100
GL113-005-02	100	100	100	100	100	100
GL113-005-03	100	100	100	100	100	100
GL113-005-04	100	100	100	100	100	100



Results for one instrument

Résultats d'un instrument

Within Limits Evaluation

Based on Single Test Results

Your Evaluation	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-069-02	100	88	100	100	100	100

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20	2.0	0.030	2.0	1.5	1.0
	units	g/tex	inch	%	units	units
Average % Results within Limits	96.1	86.4	93.5	97.5	85.0	93.7
% of Instruments 100% within limits	68.9	34.6	32.4	52.9	43.2	63.6
% of Instruments ≥95% within limits	89.6	57.4	74.3	83.8	60.6	81.8
% of Instruments ≥75% within limits	95.6	78.7	91.2	99.3	81.8	89.4
% of Instruments ≥65% within limits	96.3	86.0	96.3	99.3	85.6	93.9

Instrument	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-002-03	100	98	100	99	92	100
GL113-002-04	100	98	97	93	98	100
GL113-003-01	100	100	100	99	100	100



Plan of presentation

Plan de présentation

- Existing tests

- CSITC RT

- Data for one instrument

- **Evaluation principle**

- Charts

- Influences

- Example

- Another example

- On the long run

- Last minute...

- Tests actuels

- CSITC RT

- Données d'un instrument

- **Principe d'évaluation**

- Graphes

- Influences

- Exemple

- Autre exemple

- Dans le temps

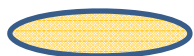
- Dernière minute ...



Evaluation for a Single Instrument

Evaluation d'un instrument

Performance of Laboratory 115								
			Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Step 1	Reference Values	Cotton 1	3,83	32,82	1,207	82,42	76,31	12,14
		Cotton 2	5,17	28,22	1,136	81,90	78,06	11,53
		Cotton 3	4,40	25,54	0,948	78,53	74,86	10,86
		Cotton 4	3,81	32,89	1,177	83,65	76,08	10,98
Step 2	Laboratory Average of All Days	Cotton 1	3,80	33,62	1,207	82,71	75,37	11,38
		Cotton 2	5,23	28,50	1,134	81,44	76,05	10,82
		Cotton 3	4,36	26,11	0,969	76,13	73,62	10,41
		Cotton 4	3,79	32,72	1,182	83,83	75,29	10,17
Step 3	Rel. Distance to Reference	Cotton 1	-0,03	0,80	0,000	0,29	-0,94	-0,76
		Cotton 2	0,06	0,28	-0,003	-0,46	-2,00	-0,71
		Cotton 3	-0,04	0,57	0,021	-2,40	-1,24	-0,45
		Cotton 4	-0,02	-0,18	0,005	0,18	-0,79	-0,81
Step 4	Mean Absolute Distance to Reference		0,04	0,46	0,007	0,83	1,24	0,68
Step 5	Scale Factor (Based on USDA Reproducibility Limits except Rd)		0,10	1,50	0,02	1,00	1,50	0,50
	Summary Evaluation for Each Property (=Mean Abs. Distance divided by Scale Factor)		0,38	0,31	0,36	0,83	0,83	1,37
Step 6	Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
	Summary Evaluation of All Properties (=Average of all properties)		0,68					



All labs average – Moyenne de tous les laboratoires



Your instrument - Votre instrument



Evaluation for a Single Instrument

Evaluation d'un instrument

Performance of Laboratory 115								
Step 1	Reference Values		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
		Cotton 1	3,83	32,82	1,207	82,42	76,31	12,14
		Cotton 2	5,17	28,22	1,136	81,90	78,06	11,53
		Cotton 3	4,40	25,54	0,948	78,53	74,86	10,86
		Cotton 4	3,81	32,89	1,177	83,65	76,08	10,98
Step 2	Laboratory Average of All Days	Cotton 1	3,80	33,62	1,207	82,71	75,37	11,38
		Cotton 2	5,23	28,50	1,134	81,44	76,05	10,82
		Cotton 3	4,36	26,11	0,969	76,13	73,62	10,41
		Cotton 4	3,79	32,72	1,182	83,83	75,29	10,17
Step 3	Rel. Distance to Reference	Cotton 1	-0,03	0,80	0,000	0,29	-0,94	-0,76
		Cotton 2	0,06	0,28	-0,003	-0,46	-2,00	-0,71
		Cotton 3	-0,04	0,57	0,021	-2,40	-1,24	-0,45
		Cotton 4	-0,02	-0,18	0,005	0,18	-0,79	-0,81
Step 4	Mean Absolute Distance to Reference		0,04	0,46	0,007	0,83	1,24	0,68
Step 5	Scale Factor							
	(Based on USDA Reproducibility Limits except Rd)		0,10	1,50	0,02	1,00	1,50	0,50
	Summary Evaluation for Each Property		0,38	0,31	0,36	0,83	0,83	1,37
Step 6	Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
	Summary Evaluation of All Properties		0,68					
	(=Average of all properties)							

Your instrument – average of all labs = distance to reference

Votre instrument - moyenne de tous = distance à la référence





Evaluation for a Single Instrument

Evaluation d'un instrument

Performance of Laboratory 115								
Step 1	Reference Values		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
		Cotton 1	3,83	32,82	1,207	82,42	76,31	12,14
		Cotton 2	5,17	28,22	1,136	81,90	78,06	11,53
		Cotton 3	4,40	25,54	0,948	78,53	74,86	10,86
		Cotton 4	3,81	32,89	1,177	83,65	76,08	10,98
Step 2	Laboratory Average of All Days							
		Cotton 1	3,80	33,62	1,207	82,71	75,37	11,38
		Cotton 2	5,23	28,50	1,134	81,44	76,05	10,82
		Cotton 3	4,36	26,11	0,969	76,13	73,62	10,41
		Cotton 4	3,79	32,72	1,182	83,83	75,29	10,17
Step 3	Rel. Distance to Reference							
		Cotton 1	-0,03	0,80	0,000	0,29	-0,94	-0,76
		Cotton 2	0,06	0,28	-0,003	-0,46	-2,00	-0,71
		Cotton 3	-0,04	0,57	0,021	-2,40	-1,24	-0,45
		Cotton 4	-0,02	-0,18	0,005	0,18	-0,79	-0,81
Step 4	Mean Absolute Distance to Reference		0,04	0,46	0,007	0,83	1,24	0,68
Step 5	Scale Factor							
	(Based on USDA Reproducibility Limits except Rd)		0,10	1,50	0,02	1,00	1,50	0,50
	Summary Evaluation for Each Property		0,38	0,31	0,36	0,83	0,83	1,37
Step 6	Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
	Summary Evaluation of All Properties		0,68					
	(=Average of all properties)							

From distances to reference, calculation of the Mean Absolute Distance to reference

A partir des distances à la référence, calcul de la valeur absolue moyenne des écarts à la référence



Evaluation for a Single Instrument

Evaluation d'un instrument

Performance of Laboratory 115								
Step 1	Reference Values		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
		Cotton 1	3,83	32,82	1,207	82,42	76,31	12,14
		Cotton 2	5,17	28,22	1,136	81,90	78,06	11,53
		Cotton 3	4,40	25,54	0,948	78,53	74,86	10,86
		Cotton 4	3,81	32,89	1,177	83,65	76,08	10,98
Step 2	Laboratory Average of All Days							
		Cotton 1	3,80	33,62	1,207	82,71	75,37	11,38
		Cotton 2	5,23	28,50	1,134	81,44	76,05	10,82
		Cotton 3	4,36	26,11	0,969	76,13	73,62	10,41
		Cotton 4	3,79	32,72	1,182	83,83	75,29	10,17
Step 3	Rel. Distance to Reference							
		Cotton 1	-0,03	0,80	0,000	0,29	-0,94	-0,76
		Cotton 2	0,06	0,28	-0,003	-0,46	-2,00	-0,71
		Cotton 3	-0,04	0,57	0,021	-2,40	-1,24	-0,45
		Cotton 4	-0,02	-0,18	0,005	0,18	-0,79	-0,81
Step 4	Mean Absolute Distance to Reference		0,04	0,46	0,007	0,83	1,24	0,68
Step 5	Scale Factor (Based on USDA Reproducibility Limits except Rd)		0,10	1,50	0,02	1,00	1,50	0,50
	Summary Evaluation for Each Property (-Mean Abs. Distance divided by Scale Factor)		0,38	0,31	0,36	0,83	0,83	1,37
Step 6	Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
	Summary Evaluation of All Properties (=Average of all properties)		0,68					

Mean absolute distance to reference / scale factor = Summary evaluation

Mean absolute distance to reference / facteur d'échelle = Evaluation résumée





Evaluation for a Single Instrument

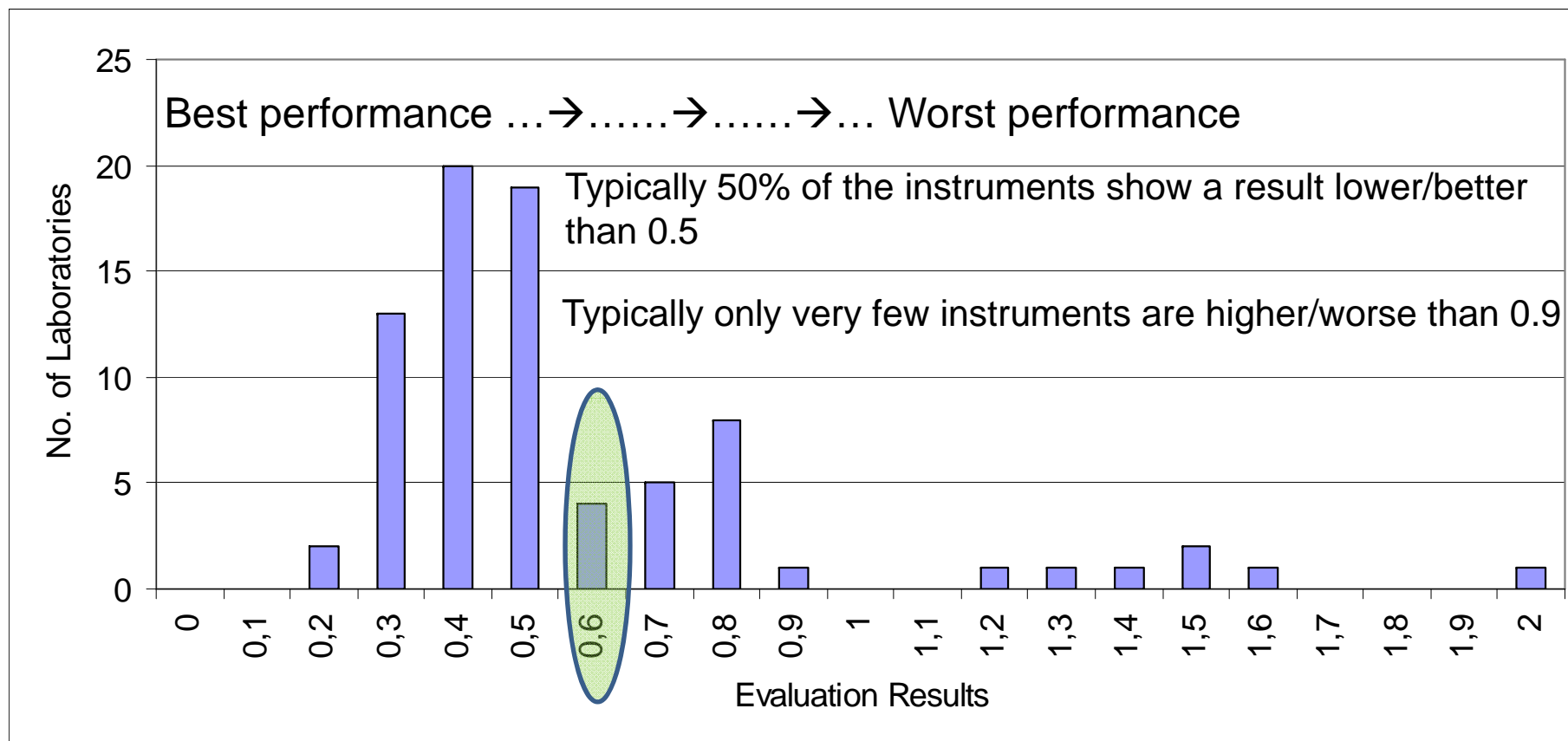
Evaluation d'un instrument

Performance of Laboratory 115								
Step 1	Reference Values		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
		Cotton 1	3,83	32,82	1,207	82,42	76,31	12,14
		Cotton 2	5,17	28,22	1,136	81,90	78,06	11,53
		Cotton 3	4,40	25,54	0,948	78,53	74,86	10,86
		Cotton 4	3,81	32,89	1,177	83,65	76,08	10,98
Step 2	Laboratory Average of All Days	Cotton 1	3,80	33,62	1,207	82,71	75,37	11,38
		Cotton 2	5,23	28,50	1,134	81,44	76,05	10,82
		Cotton 3	4,36	26,11	0,969	76,13	73,62	10,41
		Cotton 4	3,79	32,72	1,182	83,83	75,29	10,17
Step 3	Rel. Distance to Reference	Cotton 1	-0,03	0,80	0,000	0,29	-0,94	-0,76
		Cotton 2	0,06	0,28	-0,003	-0,46	-2,00	-0,71
		Cotton 3	-0,04	0,57	0,021	-2,40	-1,24	-0,45
		Cotton 4	-0,02	-0,18	0,005	0,18	-0,79	-0,81
Step 4	Mean Absolute Distance to Reference		0,04	0,46	0,007	0,83	1,24	0,68
Step 5	Scale Factor (Based on USDA Reproducibility Limits except Rd)		0,10	1,50	0,02	1,00	1,50	0,50
	Summary Evaluation for Each Property (-Mean Abs. Distance divided by Scale Factor)		0,38	0,31	0,36	0,83	0,83	1,37
Step 6	Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
	Summary Evaluation of All Properties (=Average of all properties)		0,68					

From summary evaluation, calculation of the mean to get the Global Evaluation

A partir des summary evaluations, calcul de la valeur moyenne pour obtenir l'évaluation globale

Combined Summary Evaluation Result



RT 2007-4, 79 instruments



Your instrument - Votre instrument



Plan of presentation

Plan de présentation

- Existing tests
 - CSITC RT
 - Data for one instrument
 - Evaluation principle
 - **Charts**
 - Influences
 - Example
 - Another example
 - On the long run
 - Last minute...
- Tests actuels
 - CSITC RT
 - Données d'un instrument
 - Principe d'évaluation
 - **Graphes**
 - Influences
 - Exemple
 - Autre exemple
 - Dans le temps
 - Dernière minute ...



Evaluation for a Single Instrument

Evaluation d'un instrument

Performance of Laboratory 115								
Step 1	Reference Values		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
		Cotton 1	3,83	32,82	1,207	82,42	76,31	12,14
		Cotton 2	5,17	28,22	1,136	81,90	78,06	11,53
		Cotton 3	4,40	25,54	0,948	78,53	74,86	10,86
		Cotton 4	3,81	32,89	1,177	83,65	76,08	10,98
Step 2	Laboratory Average of All Days							
		Cotton 1	3,80	33,62	1,207	82,71	75,37	11,38
		Cotton 2	5,23	28,50	1,134	81,44	76,05	10,82
		Cotton 3	4,36	26,11	0,969	76,13	73,62	10,41
		Cotton 4	3,79	32,72	1,182	83,83	75,29	10,17
Step 3	Rel. Distance to Reference							
		Cotton 1	-0,03	0,80	0,000	0,29	-0,94	-0,76
		Cotton 2	0,06	0,28	-0,003	-0,46	-2,00	-0,71
		Cotton 3	-0,04	0,57	0,021	-2,40	-1,24	-0,45
		Cotton 4	-0,02	-0,18	0,005	0,18	-0,79	-0,81
Step 4	Mean Absolute Distance to Reference		0,04	0,46	0,007	0,83	1,24	0,68
Step 5	Scale Factor							
	(Based on USDA Reproducibility Limits except Rd)		0,10	1,50	0,02	1,00	1,50	0,50
	Summary Evaluation for Each Property		0,38	0,31	0,36	0,83	0,83	1,37
	(=Mean Abs. Distance divided by Scale Factor)							
Step 6	Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
	Summary Evaluation of All Properties		0,68					
	(=Average of all properties)							

Visualization of distances to reference through charts

Visualisation des écarts à la référence avec des graphiques

Ox

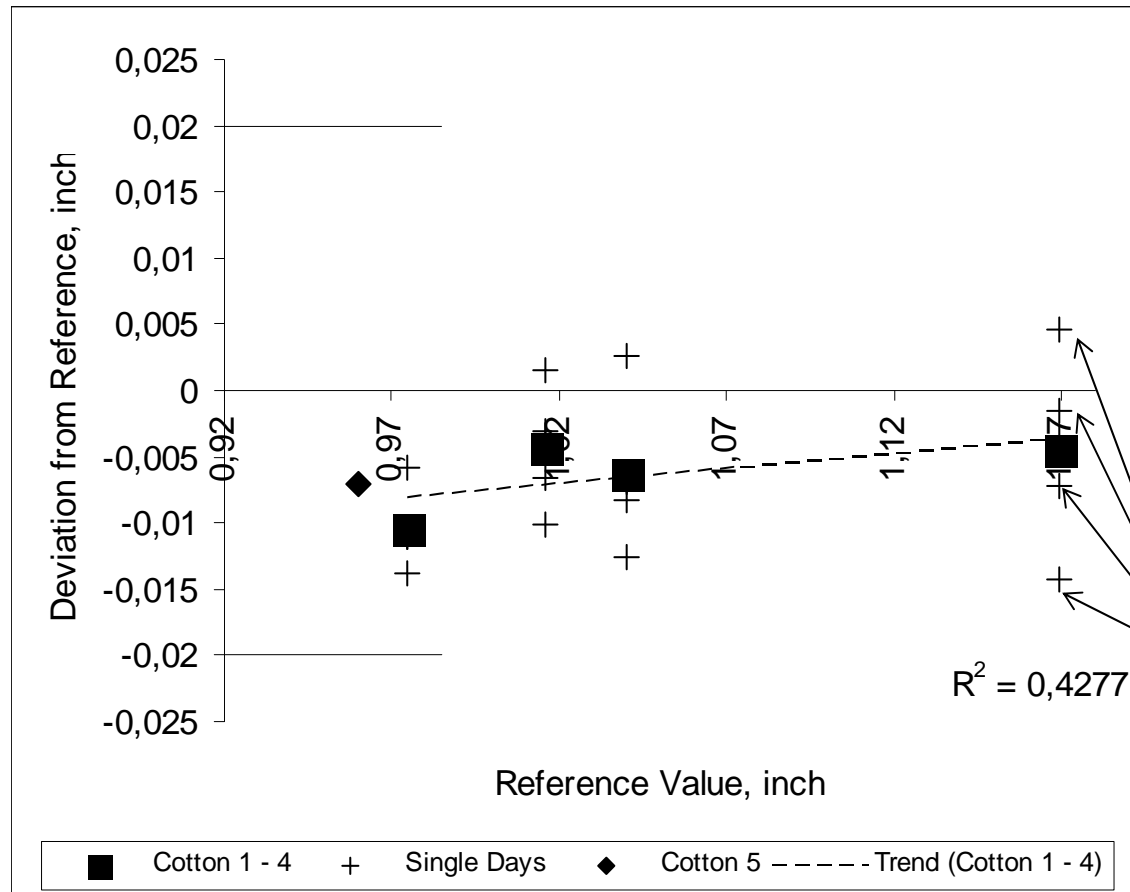
Oy





Evaluation of Systematic Deviations

Evaluation des écarts systématiques



Results cotton n, day 1 to 5
Résultats coton n, jour 1 à 5

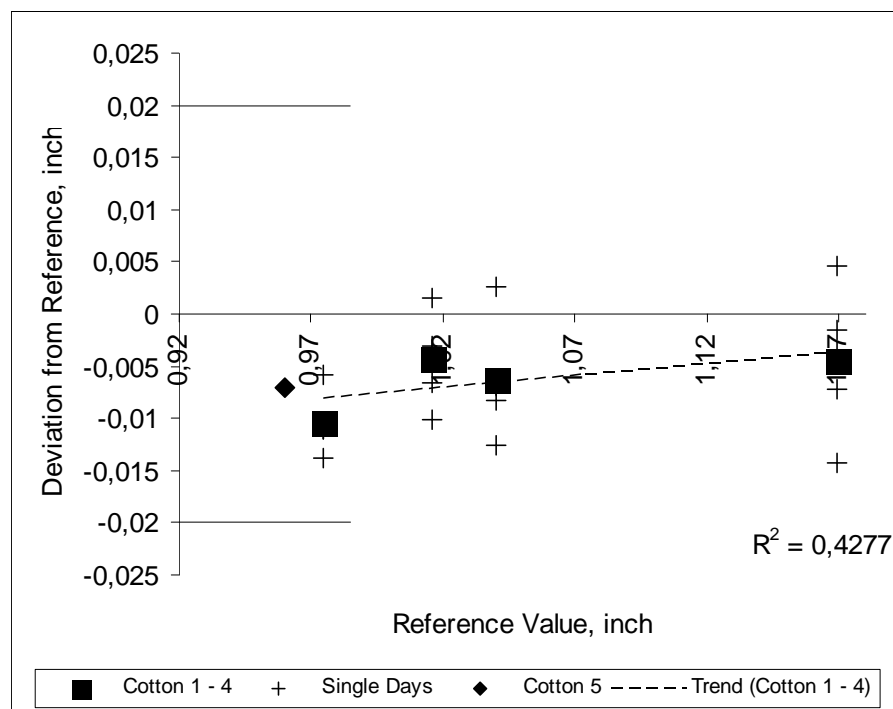


Evaluation of Systematic Deviations

Evaluation des écarts systématiques

■ Laboratory 1 – Length results:

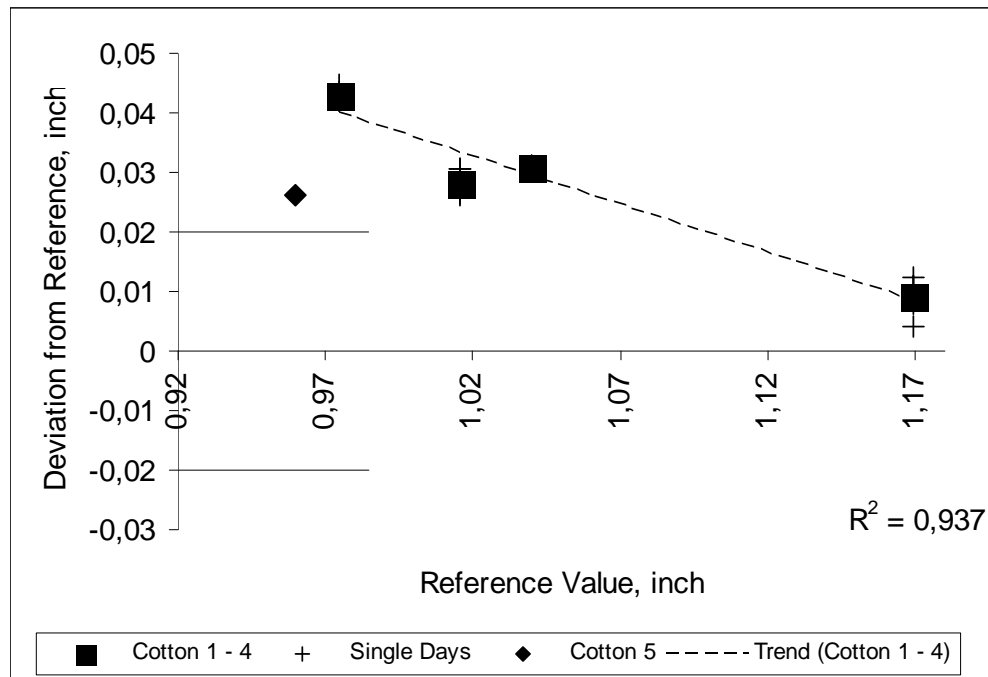
- Trueness is good La justesse est acceptable
- The results of the single days are consistent Résultats par jour acceptables
- No actions necessary to improve Rien à améliorer



Evaluation of Systematic Deviations

■ Laboratory 2 – Length results:

- For short cottons, the deviations from the reference results are too high
- The results of the single days are extremely consistent



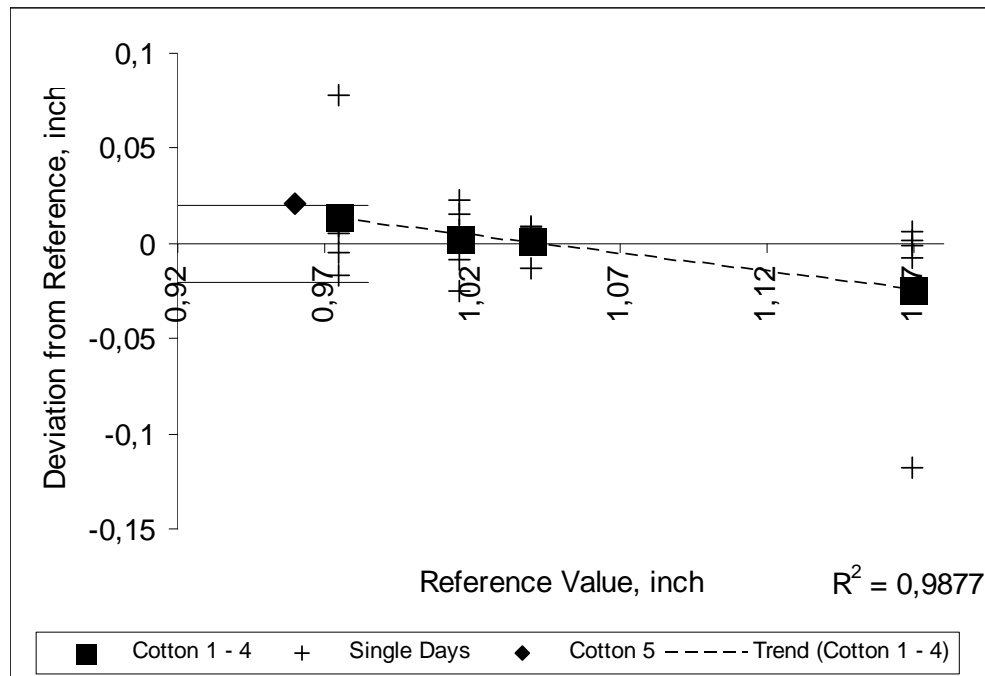
Pour les cotons courts, les écarts avec les résultats de référence sont trop grands.

Les résultats par jour sont extrêmement reproductibles.

Evaluation of Systematic Deviations

■ Laboratory 3 – Length results:

- The trueness of the results is in a tolerable range
- The results between the single days are totally deviating from each other



La justesse des résultats est dans les tolérances.
Les résultats sont différents chaque jour de tests.



Plan of presentation

Plan de présentation

- Existing tests
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- Charts
- **Influences**
- Example
- Another example
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- Last minute...

- Tests actuels
- CSITC RT
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- Graphes
- **Influences**
- Exemple
- Autre exemple
- Dans le temps
- Dernière minute ...



Results for one instrument

Résultats d'un instrument

CSITC Round Test							Cotton 1		
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
Temp 22.2 RH 65	1	4.8	27.25	0.951	79.85	77.7	8.6		
	2	4.81	27.8	0.999	80.1	77.65	8.8		
	3	4.88	29	1.011	81.1	77.15	8.7		
	4	4.87	27.8	0.999	81.8	76.3	8.75		
	5	4.92	27.75	0.997	80.7	76.4	8.85		
	6	4.85	27.95	1.007	80.4	76.75	9.05		
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
Temp 22.2 RH 64.8	1	4.85	29.1	0.995	81.7	77.75	8.55		
	2	4.85	27.5	0.996	81.15	76.55	8.85		
	3	4.85	28.6	1.011	79.9	77	8.55		
	4	4.78	27.85	1.014	80.65	76.9	8.95		
	5	4.8	28.15	1.009	81.1	77.5	8.8		
	6	4.93	27.75	1.008	81.15	77.8	8.75		
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
Temp 22.1 RH 65	1	4.8	28.95	0.991	80.55	76.8	8.6		
	2	4.77	28.1	1	80.95	77.55	8.8		
	3	4.8	27.45	1.033	81.3	77.75	8.75		
	4	4.85	27.9	1.015	81.15	76.75	8.55		
	5	4.83	28.15	1.018	81.35	76.2	8.6		
	6	4.82	27.6	1.033	81	76.9	8.6		
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
Temp 22 RH 64.9	1	4.88	28.55	1.014	79.85	77.5	8.75		
	2	4.83	28.55	1.026	81.45	77.3	8.7		
	3	4.8	28.25	1.002	81.05	77.55	8.5		
	4	4.88	28.35	0.982	81.5	77.25	8.55		
	5	4.83	27.8	0.991	80.8	76.7	8.7		
	6	4.8	27.55	1.024	80.8	77.3	8.7		
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
Temp 21.9 RH 64.9	1	4.88	28.95	0.995	80	77.6	8.75		
	2	4.86	27.65	1.002	81.5	78.15	8.55		
	3	4.83	27.8	1.033	81.35	77.9	8.55		
	4	4.82	28.5	0.971	80.6	77.6	8.65		
	5	4.78	27.7	0.988	79.65	77	8.75		
	6	4.84	26.7	1	80.4	77.65	8.65		

Average, Standard Deviation per day
Moyenne, Ecart-type par jour

CSITC Round Test							Cotton 2		
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.23	35.45	1.124	83.2	76.9	12.15		
	2	4.25	35.3	1.167	83.15	76.2	12.15		
	3	4.2	35.85	1.167	82.7	76.25	12.2		
	4	4.2	36.55	1.19	83.5	76.1	12.25		
	5	4.27	36.3	1.192	82.7	76.1	12.4		
	6	4.18	36.2	1.162	83.55	76.25	12.15		
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.29	36.3	1.166	83.65	75.9	12.4		
	2	4.25	35.3	1.192	83.45	76.4	12.3		
	3	4.23	35.75	1.191	83	76.15	12.3		
	4	4.25	35.7	1.165	84.05	75.45	12.45		
	5	4.32	36	1.173	83.9	76.4	12.4		
	6	4.26	35.7	1.181	84.65	76.95	12.3		
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.23	36.15	1.147	84.6	75.25	12.3		
	2	4.31	34.75	1.163	83.55	75.7	12.1		
	3	4.29	35.9	1.18	84.3	75.75	12.35		
	4	4.29	36.5	1.174	84.05	75.4	12.2		
	5	4.27	35.6	1.201	83.65	75.3	12.55		
	6	4.34	37.65	1.176	83.6	75.5	12.4		
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.27	33.85	1.187	84.15	75.75	12.35		
	2	4.28	35.35	1.188	83.85	75.65	12.35		
	3	4.27	35.45	1.181	84.4	75.6	12.1		
	4	4.22	36.7	1.162	83.75	74.05	11.9		
	5	4.28	35.8	1.169	84.25	75.35	12.35		
	6	4.24	35	1.196	83.25	75.4	12.45		
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.28	35.15	1.183	84.2	74.45	12.35		
	2	4.24	35.65	1.193	83.95	74.6	12.15		
	3	4.29	35.45	1.18	83.95	74.45	11.95		
	4	4.24	36.15	1.16	84.05	74.7	12.15		
	5	4.2	34.25	1.207	83.1	74.8	12.15		
	6	4.25	36.3	1.152	84.5	75	12.25		

Average, Standard Deviation per cotton
Moyenne, Ecart-type par coton

CSITC Round Test							Cotton 3		
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	3.79	24.8	1.021	80.15	76.4	13.85		
	2	3.79	27.7	1.021	80.15	76.4	13.85		
	3	3.71	28.45	1.031	80.35	76.45	13.9		
	4	3.78	27	1.004	80.3	76.1	13.85		
	5	3.78	28.8	1.094	80.4	76.85	13.85		
	6	3.74	27.3	1.053	80.65	76.45	13.9		
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	3.82	26.05	1.059	81	76.55	13.65		
	2	3.84	27.7	1.047	81.15	76.55	13.65		
	3	3.86	26.3	1.12	80.25	76.35	13.65		
	4	3.81	27.15	1.023	80.4	76.75	13.85		
	5	3.87	27.5	1.047	80.3	76.1	13.65		
	6	3.87	26.2	1.034	80.45	76.75	13.65		
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	3.78	27.25	1.031	81.4	76.05	13.9		
	2	3.73	27.45	1.017	79.95	76.05	14		
	3	3.82	28.15	1.058	80.3	76.3	13.75		
	4	3.81	28.05	1.01	80.3	76.35	13.75		
	5	3.81	28.05	1.05	80.7	76.3	13.75		
	6	3.78	28.25	1.048	82.05	76.1	13.7		
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	3.75	27.4	1.024	81.3	76.65	13.95		
	2	3.76	28.4	1.073	79.85	76.5	13.95		
	3	3.75	27.3	1.017	79.15	76.4	13.85		
	4	3.76	28	1.022	80.9	76.1	13.9		
	5	3.77	28.5	1.046	80.05	76.1	13.7		
	6	3.78	27.05	1.034	81	77	13.75		
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	3.89	27.05	1.088	81.2	76.35	13.85		
	2	3.8	28.35	1.083	80.95	76.85	13.85		
	3	3.77	28.2	1.027	80.6	76.05	13.6		
	4	3.8	27.1	1.038	81.65	76.75	13.75		
	5	3.72	28.35	1.05	81.6	76.65	13.75		
	6	3.72	28.35	1.05	81.6	76.65	13.75		
CSITC Round Test							Cotton 4		
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.15	24.8	0.98	79.1	76.1	12.35		
	2	4.12	24	0.987	78.15	75	12.45		
	3	4.12	24.2	0.988	79.15	76.4	12.35		
	4	4.14	23.55	0.989	79.15	74.5	12.35		
	5	4.15	24.4	0.988	78.35	74.65	12.65		
	6	4.15	24.45	0.987	79.25	74.65	12.4		
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.15	23.6	0.95	79.1	74.5	12.35		
	2	4.13	24.35	0.985	78.3	74.75	12.65		
	3	4.21	24.25	0.983	78.6	75.05	12.35		
	4	4.13	24.35	0.983	80.15	74.65	12.35		
	5	4.03	23.5	0.994	78.3	74	12.35		
	6	4.14	23.4	0.987	79.15	74.4	12.35		
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.13	24.45	0.971	79.15	74.65	12.35		
	2	4.1	24.45	0.969	78.3	74.65	12.35		
	3	4.03	24.4	0.98	78.15	74.1	12.35		
	4	4.13	23.55	0.948	79.3	75.2	12.35		
	5	4.08	24.05	0.986	78.65	74.1	12.35		
	6	4.07	23.05	0.97	78.85	76.15	12.4		
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.15	23.65	0.931	77.9	74.45	12.4		
	2	4.11	23.9	0.981	78.9	74.45	12.45		
	3	4.18	23.55	0.965	78.85	74.4	12.3		
	4	4.18	24	0.982	78.65	74.25	12.4		
	5	4.08	24	0.988	78.3	74.1	12.3		
	6	4.1	23.75	0.979	79.6	74.4	12.4		
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.16	23.05	0.956	78.15	74	12.15		
	2	4.08	24.5	0.995	80.25	74.45	12.15		
	3	4.02	23.8	0.987	79.15	75.2	12.25		
	4	4.15	23.85	0.973	79.85	75.2	12.3		
	5	4.04	24.45	1.009	80.4	75.05	12.1		
	6	4.1	23.05	0.987	79.35	74.75	12.1		
CSITC Round Test							Cotton 5 (Unofficial)		
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b		
	1	4.18	23.25	0.958	77.45	75	9.4		
	2	4.14	23.85	0.995	79.05	74.85	9.4		</



Results for one instrument

Résultats d'un instrument

CSITC Round Test		Cotton 1					
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Temp 22.2 RH 65	1	4.8	27.25	0.951	79.85	77.7	8.6
	2	4.81	27.8	0.999	80.1	77.65	8.8
	3	4.88	29	1.011	81.1	77.15	8.7
	4	4.87	27.8	0.999	81.8	76.3	8.75
	5	4.92	27.75	0.997	80.7	76.4	8.85
	6	4.85	27.95	1.007	80.4	76.75	9.05
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Temp 22.2 RH 64.8	1	4.85	29.1	0.995	81.7	77.75	8.55
	2	4.85	27.5	0.996	81.15	76.55	8.85
	3	4.85	28.6	1.011	79.9	77	8.55
	4	4.78	27.85	1.014	80.65	76.9	8.95
	5	4.8	28.15	1.009	81.1	77.5	8.8
	6	4.93	27.75	1.008	81.15	77.8	8.75
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Temp 22.1 RH 65	1	4.8	28.95	0.991	80.55	76.8	8.6
	2	4.77	28.1	1	80.95	77.55	8.8
	3	4.8	27.45	1.033	81.3	77.75	8.75
	4	4.85	27.9	1.015	81.15	76.75	8.55
	5	4.83	28.15	1.018	81.35	76.2	8.6
	6	4.82	27.6	1.033	81	76.9	8.6
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Temp 22 RH 64.9	1	4.88	28.55	1.014	79.85	77.5	8.75
	2	4.83	28.55	1.026	81.45	77.3	8.7
	3	4.8	28.25	1.002	81.05	77.55	8.5
	4	4.88	28.35	0.982	81.5	77.25	8.55
	5	4.83	27.8	0.991	80.8	76.7	8.7
	6	4.8	27.55	1.024	80.8	77.3	8.7
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Temp 21.9 RH 64.9	1	4.88	28.95	0.995	80	77.6	8.75
	2	4.86	27.65	1.002	81.5	78.15	8.55
	3	4.83	27.8	1.033	81.35	77.9	8.55
	4	4.82	28.5	0.971	80.6	77.6	8.65
	5	4.78	27.7	0.988	79.65	77	8.75
	6	4.84	28.7	1	80.4	77.65	8.65

CSITC Round Test		Cotton 2					
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.23	35.45	1.124	83.2	76.9	12.15
	2	4.25	35.3	1.167	83.15	76.2	12.15
	3	4.2	35.85	1.167	82.7	76.25	12.2
	4	4.2	36.55	1.19	83.5	76.1	12.25
	5	4.27	36.3	1.192	82.7	76.1	12.4
	6	4.18	36.2	1.162	83.55	76.25	12.15
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.29	36.3	1.166	83.65	75.9	12.4
	2	4.25	35.3	1.192	83.45	76.4	12.3
	3	4.23	35.75	1.191	83	76.15	12.3
	4	4.25	35.7	1.165	84.05	75.45	12.45
	5	4.32	36	1.173	83.9	76.4	12.4
	6	4.26	35.7	1.181	84.65	76.95	12.3
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.23	36.15	1.147	84.6	75.25	12.3
	2	4.31	34.75	1.163	83.55	75.7	12.1
	3	4.29	35.9	1.18	84.3	75.75	12.35
	4	4.29	36.5	1.174	84.05	75.4	12.2
	5	4.27	35.6	1.201	83.65	75.3	12.55
	6	4.34	37.65	1.176	83.6	75.5	12.4
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.27	33.85	1.187	84.15	75.75	12.35
	2	4.28	35.35	1.188	83.85	75.65	12.35
	3	4.27	35.45	1.181	84.4	75.6	12.1
	4	4.22	36.7	1.162	83.75	74.05	11.9
	5	4.28	35.8	1.169	84.25	75.35	12.35
	6	4.24	35	1.196	83.25	75.4	12.45
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.28	35.15	1.183	84.2	74.45	12.35
	2	4.24	35.65	1.193	83.95	74.6	12.15
	3	4.29	35.45	1.18	83.95	74.45	11.95
	4	4.24	36.15	1.16	84.05	74.7	12.15
	5	4.2	34.25	1.207	83.1	74.8	12.15
	6	4.25	36.3	1.152	84.5	75	12.25

CSITC Round Test		Cotton 3					
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	3.79	27.7	1.021	80.75	76.4	13.85
	2	3.71	28.45	1.031	80.35	76.45	13.9
	3	3.78	27	1.004	80.9	76.7	13.85
	4	3.78	28.8	1.094	80.4	76.85	13.85
	5	3.87	27.5	1.047	80.9	76.1	13.65
	6	3.87	28.2	1.034	80.45	76.75	13.65
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	3.82	28.05	1.059	81	76.65	13.65
	2	3.84	27.7	1.047	81.15	76.55	13.65
	3	3.86	28.3	1.12	80.95	76.75	13.95
	4	3.81	27.15	1.023	80.4	76.75	13.85
	5	3.87	27.5	1.047	80.9	76.1	13.65
	6	3.87	28.2	1.034	80.45	76.75	13.65

CSITC Round Test		Cotton 3					
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	3.78	27.25	1.031	81.4	76.65	13.8
	2	3.73	27.45	1.017	79.95	76.95	14
	3	3.82	28.15	1.058	80.3	76.5	13.75
	4	3.81	28.05	1.01	80.9	76.75	13.75
	5	3.81	28.05	1.05	80.7	76.3	13.75
	6	3.78	28.25	1.048	82.05	76.1	13.7

CSITC Round Test		Cotton 3					
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	3.78	27.25	1.031	81.4	76.65	13.8
	2	3.73	27.45	1.017	79.95	76.95	14
	3	3.82	28.15	1.058	80.3	76.5	13.75
	4	3.81	28.05	1.01	80.9	76.75	13.75
	5	3.81	28.05	1.05	80.7	76.3	13.75
	6	3.78	28.25	1.048	82.05	76.1	13.7

CSITC Round Test		Cotton 3					
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	3.78	27.25	1.031	81.4	76.65	13.8
	2	3.73	27.45	1.017	79.95	76.95	14
	3	3.82	28.15	1.058	80.3	76.5	13.75
	4	3.81	28.05	1.01	80.9	76.75	13.75
	5	3.81	28.05	1.05	80.7	76.3	13.75
	6	3.78	28.25	1.048	82.05	76.1	13.7

CSITC Round Test		Cotton 3					
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	3.78	27.25	1.031	81.4	76.65	13.8
	2	3.73	27.45	1.017	79.95	76.95	14
	3	3.82	28.15	1.058	80.3	76.5	13.75
	4	3.81	28.05	1.01	80.9	76.75	13.75
	5	3.81	28.05	1.05	80.7	76.3	13.75
	6	3.78	28.25	1.048	82.05	76.1	13.7

CSITC Round Test		Cotton 4					
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.15	24.6	0.98	79.1	76.1	12.35
	2	4.12	24	0.987	78.75	75	12.45
	3	4.12	24.2	0.988	79.15	76.4	12.35
	4	4.14	23.55	0.989	79.15	74.5	12.35
	5	4.15	24.4	0.988	78.85	74.65	12.65
	6	4.15	24.45	0.987	79.25	74.65	12.4
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.15	23.6	0.95	79.1	74.5	12.35
	2	4.13	24.55	0.985	78.9	74.75	12.35
	3	4.21	24.25	0.983	78.6	75.05	12.35
	4	4.13	24.55	0.983	80.15	74.65	12.35
	5	4.03	23.5	0.994	78.3	74	12.35
	6	4.14	23.4	0.987	79.15	74.4	12.35

CSITC Round Test		Cotton 4					
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.13	24.45	0.971	79.15	74.65	12.35
	2	4.1	24.45	0.969	78.3	74.65	12.35
	3	4.03	23.4	0.985	78.15	74.75	12.35
	4	4.13	23.55	0.948	79.3	75.2	12.35
	5	4.06	23.4	0.986	78.15	74.75	12.35
	6	4.07	23.05	0.97	78.85	76.15	12.4
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.15	23.65	0.93	77.9	74.45	12.4
	2	4.11	23.9	0.981	78.9	74.65	12.45
	3	4.18	23.55	0.965	78.85	74.4	12.3
	4	4.16	24	0.982	78.65	74.95	12.4
	5	4.06	23	0.988	78.15	74.1	12.35
	6	4.1	23.75	0.979	79.6	74.4	12.4

CSITC Round Test		Cotton 4					
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.16	23.05	0.955	78.15	74	12.15
	2	4.08	24.5	0.995	80.25	74.45	12.15
	3	4.02	23.8	0.987	79.15	75.2	12.25
	4	4.15	23.85	0.973	79.45	75.2	12.3
	5	4.04	24.45	1.009	80.4	75.05	12.1
	6	4.1	23.05	0.967	79.35	74.75	12.1

Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +
1	4.18	24.05	0.956	79.75	74	12.15	
2	4.06	24.5	0.995	80.25	74.45	12.15	
3	4.02	23.8	0.987	79.75	75.2	12.25	
4	4.25	23.85	0.973	79.85	75.2	12.2	
5	4.04	24.45	1.009	80.4	75.05	12.1	
6	4.1	23.55	0.967	79.25	74.75	12.1	



Day of testing influence

Influence du jour de test

CSITC Round Test				Cotton 1			
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	27.25	0.951	79.85	77.7	8.6
Temp	2	4.81	27.8	0.999	80.1	77.65	8.8
22.2	3	4.88	29	1.011	81.1	77.15	8.7
RH	4	4.87	27.8	0.999	81.8	76.3	8.75
65	5	4.92	27.75	0.997	80.7	76.4	8.85
	6	4.85	27.95	1.007	80.4	76.75	9.05
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.85	29.1	0.995	81.7	77.75	8.55
Temp	2	4.85	27.5	0.996	81.15	76.55	8.85
22.2	3	4.85	28.6	1.011	79.9	77	8.55
RH	4	4.78	27.85	1.014	80.65	76.9	8.95
64.8	5	4.8	28.15	1.009	81.1	77.5	8.8
	6	4.93	27.75	1.008	81.15	77.8	8.75
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	28.95	0.991	80.55	76.8	8.6
Temp	2	4.77	28.1	1	80.95	77.55	8.8
22.1	3	4.8	27.45	1.033	81.3	77.75	8.75
RH	4	4.85	27.9	1.015	81.15	76.75	8.55
65	5	4.83	28.15	1.018	81.35	76.2	8.6
	6	4.82	27.6	1.033	81	76.9	8.6
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.55	1.014	79.85	77.5	8.75
Temp	2	4.83	28.55	1.026	81.45	77.3	8.7
22	3	4.8	28.25	1.002	81.05	77.55	8.5
RH	4	4.88	28.35	0.982	81.5	77.25	8.55
64.9	5	4.83	27.8	0.991	80.8	76.7	8.7
	6	4.8	27.55	1.024	80.8	77.3	8.7
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.95	0.995	80	77.6	8.75
Temp	2	4.86	27.65	1.002	81.5	78.15	8.55
21.9	3	4.83	27.8	1.033	81.35	77.9	8.55
RH	4	4.82	28.5	0.971	80.6	77.6	8.65
64.9	5	4.78	27.7	0.988	79.65	77	8.75
	6	4.84	28.7	1	80.4	77.65	8.65

Mean
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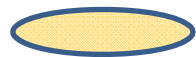
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Day of testing influence

Influence du jour de test

Length									
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5	Remark
Reference Values for Evaluation			1,1093	1,1874	1,1357	1,1153		1,1428	
Typical In-Lab. Variation (Median)	between different days with each 6 tests	SD	0,0061	0,0068	0,0063	0,0058	0,0063	0,0062	
	between single tests on one day	SD	0,0101	0,0115	0,0108	0,0097	0,0105	0,0110	
	between all tests on different days	SD	0,0119	0,0128	0,0124	0,0112	0,0121	0,0123	
In-Lab. Variation (Your Lab.)	between different days with each 6 tests	SD	0,0135	0,0083	0,0058	0,0058	0,0083	0,0072	
	between single tests on one day	SD	0,0174	0,0119	0,0161	0,0133	0,0147	0,0155	
	between all tests on different days	SD	0,0213	0,0140	0,0166	0,0136	0,0164	0,0163	



All labs average – Moyenne de tous les laboratoires



Your instrument - Votre instrument



Test influence within a day

Influence du test dans le jour

CSITC Round Test				Cotton 1			
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	27.25	0.951	79.85	77.7	8.6
Temp	2	4.81	27.8	0.999	80.1	77.65	8.8
22.2	3	4.88	29	1.011	81.1	77.15	8.7
RH	4	4.87	27.8	0.999	81.8	76.3	8.75
65	5	4.92	27.75	0.997	80.7	76.4	8.85
	6	4.85	27.95	1.007	80.4	76.75	9.05
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.85	29.1	0.995	81.7	77.75	8.55
Temp	2	4.85	27.5	0.996	81.15	76.55	8.85
22.2	3	4.85	28.6	1.011	79.9	77	8.55
RH	4	4.78	27.85	1.014	80.65	76.9	8.95
64.8	5	4.8	28.15	1.009	81.1	77.5	8.8
	6	4.93	27.75	1.008	81.15	77.8	8.75
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	28.95	0.991	80.55	76.8	8.6
Temp	2	4.77	28.1	1	80.95	77.55	8.8
22.1	3	4.8	27.45	1.033	81.3	77.75	8.75
RH	4	4.85	27.9	1.015	81.15	76.75	8.55
65	5	4.83	28.15	1.018	81.35	76.2	8.6
	6	4.82	27.6	1.033	81	76.9	8.6
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.55	1.014	79.85	77.5	8.75
Temp	2	4.83	28.55	1.026	81.45	77.3	8.7
22	3	4.8	28.25	1.002	81.05	77.55	8.5
RH	4	4.88	28.35	0.982	81.5	77.25	8.55
64.9	5	4.83	27.8	0.991	80.8	76.7	8.7
	6	4.8	27.55	1.024	80.8	77.3	8.7
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.95	0.995	80	77.6	8.75
Temp	2	4.86	27.65	1.002	81.5	78.15	8.55
21.9	3	4.83	27.8	1.033	81.35	77.9	8.55
RH	4	4.82	28.5	0.971	80.6	77.6	8.65
64.9	5	4.78	27.7	0.988	79.65	77	8.75
	6	4.84	28.7	1	80.4	77.65	8.65

Stdv
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Stdv
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Stdv
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Stdv
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Stdv
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Mean
Moyenne



Test influence within a day

Influence du test dans le jour

Length									
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5	Remark
Reference Values for Evaluation			1,1093	1,1874	1,1357	1,1153		1,1428	
Typical In-Lab. Variation (Median)	between different days with each 6 tests	SD	0,0061	0,0068	0,0063	0,0058	0,0063	0,0062	
	between single tests on one day	SD	0,0101	0,0115	0,0108	0,0097	0,0105	0,0110	
	between all tests on different days	SD	0,0119	0,0128	0,0124	0,0112	0,0121	0,0123	
In-Lab. Variation (Your Lab.)	between different days with each 6 tests	SD	0,0135	0,0083	0,0058	0,0058	0,0083	0,0072	
	between single tests on one day	SD	0,0174	0,0119	0,0161	0,0133	0,0147	0,0155	
	between all tests on different days	SD	0,0213	0,0140	0,0166	0,0136	0,0164	0,0163	



All labs average – Moyenne de tous les laboratoires



Your instrument - Votre instrument



Every test influence

Influence de chaque test

CSITC Round Test				Cotton 1			
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	27.25	0.951	79.85	77.7	8.6
Temp	2	4.81	27.8	0.999	80.1	77.65	8.8
22.2	3	4.88	29	1.011	81.1	77.15	8.7
RH	4	4.87	27.8	0.999	81.8	76.3	8.75
65	5	4.92	27.75	0.997	80.7	76.4	8.85
	6	4.85	27.95	1.007	80.4	76.75	9.05
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.85	29.1	0.995	81.7	77.75	8.55
Temp	2	4.85	27.5	0.996	81.15	76.55	8.85
22.2	3	4.85	28.6	1.011	79.9	77	8.55
RH	4	4.78	27.85	1.014	80.65	76.9	8.95
64.8	5	4.8	28.15	1.009	81.1	77.5	8.8
	6	4.93	27.75	1.008	81.15	77.8	8.75
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	28.95	0.991	80.55	76.8	8.6
Temp	2	4.77	28.1	1	80.95	77.55	8.8
22.1	3	4.8	27.45	1.033	81.3	77.75	8.75
RH	4	4.85	27.9	1.015	81.15	76.75	8.55
65	5	4.83	28.15	1.018	81.35	76.2	8.6
	6	4.82	27.6	1.033	81	76.9	8.6
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.55	1.014	79.85	77.5	8.75
Temp	2	4.83	28.55	1.026	81.45	77.3	8.7
22	3	4.8	28.25	1.002	81.05	77.55	8.5
RH	4	4.88	28.35	0.982	81.5	77.25	8.55
64.9	5	4.83	27.8	0.991	80.8	76.7	8.7
	6	4.8	27.55	1.024	80.8	77.3	8.7
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.95	0.995	80	77.6	8.75
Temp	2	4.86	27.65	1.002	81.5	78.15	8.55
21.9	3	4.83	27.8	1.033	81.35	77.9	8.55
RH	4	4.82	28.5	0.971	80.6	77.6	8.65
64.9	5	4.78	27.7	0.988	79.65	77	8.75
	6	4.84	28.7	1	80.4	77.65	8.65

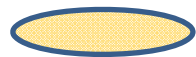
Stdv
Ecart-type



Every test influence

Influence de chaque test

Length									
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5	Remark
Reference Values for Evaluation			1,1093	1,1874	1,1357	1,1153		1,1428	
Typical In-Lab. Variation (Median)	between different days with each 6 tests	SD	0,0061	0,0068	0,0063	0,0058	0,0063	0,0062	
	between single tests on one day	SD	0,0101	0,0115	0,0108	0,0097	0,0105	0,0110	
	between all tests on different days	SD	0,0119	0,0128	0,0124	0,0112	0,0121	0,0123	
In-Lab. Variation (Your Lab.)	between different days with each 6 tests	SD	0,0135	0,0083	0,0058	0,0058	0,0083	0,0072	
	between single tests on one day	SD	0,0174	0,0119	0,0161	0,0133	0,0147	0,0155	
	between all tests on different days	SD	0,0213	0,0140	0,0166	0,0136	0,0164	0,0159	



All labs average – Moyenne de tous les laboratoires



Your instrument - Votre instrument



Test influence within a day

Influence du test dans le jour

CSITC Round Test		Cotton 1					
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	27.25	0.951	79.85	77.7	8.6
Temp	2	4.81	27.8	0.999	80.1	77.65	8.8
22.2	3	4.88	29	1.011	81.1	77.15	8.7
RH	4	4.87	27.8	0.999	81.8	76.3	8.75
65	5	4.92	27.75	0.997	80.7	76.4	8.85
	6	4.85	27.95	1.007	80.4	76.75	9.05
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.85	29.1	0.995	81.7	77.75	8.55
Temp	2	4.85	27.5	0.996	81.15	76.55	8.85
22.2	3	4.85	28.6	1.011	79.9	77	8.55
RH	4	4.78	27.85	1.014	80.65	76.9	8.95
64.8	5	4.8	28.15	1.009	81.1	77.5	8.8
	6	4.93	27.75	1.008	81.15	77.8	8.75
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	28.95	0.991	80.55	76.8	8.6
Temp	2	4.77	28.1	1	80.95	77.55	8.8
22.1	3	4.8	27.45	1.033	81.3	77.75	8.75
RH	4	4.85	27.9	1.015	81.15	76.75	8.55
65	5	4.83	28.15	1.018	81.35	76.2	8.6
	6	4.82	27.6	1.033	81	76.9	8.6
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.55	1.014	79.85	77.5	8.75
Temp	2	4.83	28.55	1.026	81.45	77.3	8.7
22	3	4.8	28.25	1.002	81.05	77.55	8.5
RH	4	4.88	28.35	0.982	81.5	77.25	8.55
64.9	5	4.83	27.8	0.991	80.8	76.7	8.7
	6	4.8	27.55	1.024	80.8	77.3	8.7
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.95	0.995	80	77.6	8.75
Temp	2	4.86	27.65	1.002	81.5	78.15	8.55
21.9	3	4.83	27.8	1.033	81.35	77.9	8.55
RH	4	4.82	28.5	0.971	80.6	77.6	8.65
64.9	5	4.78	27.7	0.988	79.65	77	8.75
	6	4.84	28.7	1	80.4	77.65	8.65

Stdv
Ecart-type

Stdv
Ecart-type

Stdv
Ecart-type

Stdv
Ecart-type

Stdv
Ecart-type

Mean
Moyenne



Test influence within a day

Influence du test dans le jour

CSITC Round Test				Cotton 1			
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	27.25	0.951	79.85	77.7	8.6
Temp	2	4.81	27.8	0.999	80.1	77.65	8.8
22.2	3	4.88	29	1.011	81.1	77.15	8.7
RH	4	4.87	27.8	0.999	81.8	76.3	8.75
65	5	4.92	27.75	0.997	80.7	76.4	8.85
	6	4.85	27.95	1.007	80.4	76.75	9.05
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.85	29.1	0.995	81.7	77.75	8.55
Temp	2	4.85	27.5	0.996	81.15	76.55	8.85
22.2	3	4.85	28.6	1.011	79.9	77	8.55
RH	4	4.78	27.85	1.014	80.65	76.9	8.95
64.8	5	4.8	28.15	1.009	81.1	77.5	8.8
	6	4.93	27.75	1.008	81.15	77.8	8.75
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.8	28.95	0.991	80.55	76.8	8.6
Temp	2	4.77	28.1	1	80.95	77.65	8.8
22.1	3	4.8	27.45	1.033	81.3	77.65	8.75
RH	4	4.85	27.9	1.015	81.15	76.75	8.55
65	5	4.83	28.15	1.018	81.15	76.2	8.6
	6	4.82	27.6	1.033	81.15	76.9	8.6
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.55	1.014	79.85	77.5	8.75
Temp	2	4.83	28.55	1.026	81.45	77.3	8.7
22	3	4.8	28.25	1.002	81.05	77.55	8.5
RH	4	4.88	28.35	0.982	81.5	77.25	8.55
64.9	5	4.83	27.8	0.991	80.8	76.7	8.7
	6	4.8	27.55	1.024	80.8	77.3	8.7
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.88	28.95	0.995	80	77.6	8.75
Temp	2	4.86	27.65	1.002	81.5	78.15	8.55
21.9	3	4.83	27.8	1.033	81.35	77.9	8.55
RH	4	4.82	28.5	0.971	80.6	77.6	8.65
64.9	5	4.78	27.7	0.988	79.65	77	8.75
	6	4.84	28.7	1	80.4	77.65	8.65

Stdv

Ecart-type

Stdv

Ecart-type

Stdv

Ecart-type

Stdv

Ecart-type

Stdv

Ecart-type

Mean

Moyenne

Calcul de l'interaction Day*Test pourrait être ajoutée



Results for one instrument

Résultats d'un instrument

Within Limits Evaluation

Based on average of 30 test results for each sample

Your Evaluation	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-069-02	100	100	100	100	100	100

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20	2.0	0.030	2.0	1.5	1.0
	units	g/tex	inch	%	units	units
Average % Results within Limits	97.0	92.3	96.7	99.6	86.4	95.1
% of Instruments Completely within limits	95.6	83.1	91.2	98.5	76.5	89.4

Instrument	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-002-03	100	100	100	100	75	100
GL113-002-04	100	100	100	100	100	100
GL113-003-01	100	100	100	100	100	100
GL113-004-01	100	100	100	100	100	75
GL113-005-01	100	100	100	100	100	100
GL113-005-02	100	100	100	100	100	100
GL113-005-03	100	100	100	100	100	100
GL113-005-04	100	100	100	100	100	100

Lab ...



Results for one instrument

Résultats d'un instrument

Within Limits Evaluation

Based on Single Test Results

Your Evaluation	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-069-02	100	88	100	100	100	100

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20 units	2.0 g/tex	0.030 inch	2.0 %	1.5 units	1.0 units
Average % Results within Limits	96.1	86.4	93.5	97.5	85.0	93.7
% of Instruments 100% within limits	68.9	34.6	32.4	52.9	43.2	63.6
% of Instruments ≥95% within limits	89.6	57.4	74.3	83.8	60.6	81.8
% of Instruments ≥75% within limits	95.6	78.7	91.2	99.3	81.8	89.4
% of Instruments ≥65% within limits	96.3	86.0	96.3	99.3	85.6	93.9

Lab ...

Instrument	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-002-03	100	98	100	99	92	100
GL113-002-04	100	98	97	93	98	100
GL113-003-01	100	100	100	99	100	100



Plan of presentation

Plan de présentation

- Existing tests
- CSITC RT
- Data for one instrument
- Evaluation principle
- Charts
- Influences
- **Example**
- Another example
- On the long run
- Last minute...

- Tests actuels
- CSITC RT
- Données d'un instrument
- Principe d'évaluation
- Graphes
- Influences
- **Exemple**
- Autre exemple
- Dans le temps
- Dernière minute ...



Example Exemple

Performance of Laboratory 026-02

		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Reference Values	Cotton 1	4,492	29,015	1,1093	81,549	78,432	9,887
	Cotton 2	4,290	32,916	1,1874	83,393	77,436	12,051
	Cotton 3	4,307	27,894	1,1357	82,607	71,084	8,476
	Cotton 4	5,059	28,725	1,1153	83,514	74,722	14,448
	<i>Cotton 5</i>	<i>4,142</i>	<i>29,720</i>	<i>1,1428</i>	<i>82,936</i>	<i>78,580</i>	<i>9,251</i>
Laboratory Average of All Days	Cotton 1	4,505	29,187	1,0973	80,777	80,427	9,443
	Cotton 2	4,324	33,690	1,1823	82,707	78,563	11,653
	Cotton 3	4,350	27,307	1,1217	81,823	72,867	8,233
	Cotton 4	5,118	27,423	1,1137	83,257	76,320	14,110
	<i>Cotton 5</i>	<i>4,173</i>	<i>31,137</i>	<i>1,1380</i>	<i>82,467</i>	<i>80,300</i>	<i>8,923</i>
Rel. Distance to Reference	Cotton 1	0,013	0,171	-0,0119	-0,773	1,994	-0,444
	Cotton 2	0,033	0,774	-0,0051	-0,686	1,127	-0,397
	Cotton 3	0,043	-0,587	-0,0140	-0,783	1,783	-0,243
	Cotton 4	0,059	-1,301	-0,0017	-0,258	1,598	-0,338
	<i>Cotton 5</i>	<i>0,031</i>	<i>1,417</i>	<i>-0,0048</i>	<i>-0,469</i>	<i>1,720</i>	<i>-0,328</i>
Mean Absolute Distance to Reference (Cotton 1 - 4 only)		0,037	0,708	0,0082	0,625	1,626	0,355
Scale Factor		0,10	1,50	0,02	1,00	1,50	0,50
Summary Evaluation for Each Property		0,37	0,47	0,41	0,63	1,08	0,71
Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
Summary Evaluation of All Properties		0,61					



Example Exemple

Laboratory Evaluation

Lab.: 026-02

- Combined Properties -

According to ICAC CSITC Task Force Recommendations

Round Trial No.: GL 2010-1

	Lab. No.	Evaluation Combined Prop.
Your Evaluation	026-02	0,61

Statistics		Evaluation Combined Prop.
	Average	0,58
	Median	0,54
	Best Lab.	0,20
	Worst Lab.	1,96

No.	Lab. No.	Evaluation Combined Prop.
41	021-01	0,52
42	067-01	0,52
43	039-01	0,52
44	040-01	0,54
45	079-01	0,55
46	046-01	0,56
47	076-01	0,56
48	010-02	0,56
49	091-01	0,57
50	086-02	0,58
51	077-02	0,58
52	030-01	0,59
53	003-01	0,59
54	019-01	0,59
55	074-01	0,60
56	002-01	0,61
57	089-01	0,61
58	026-02	0,61

All labs average

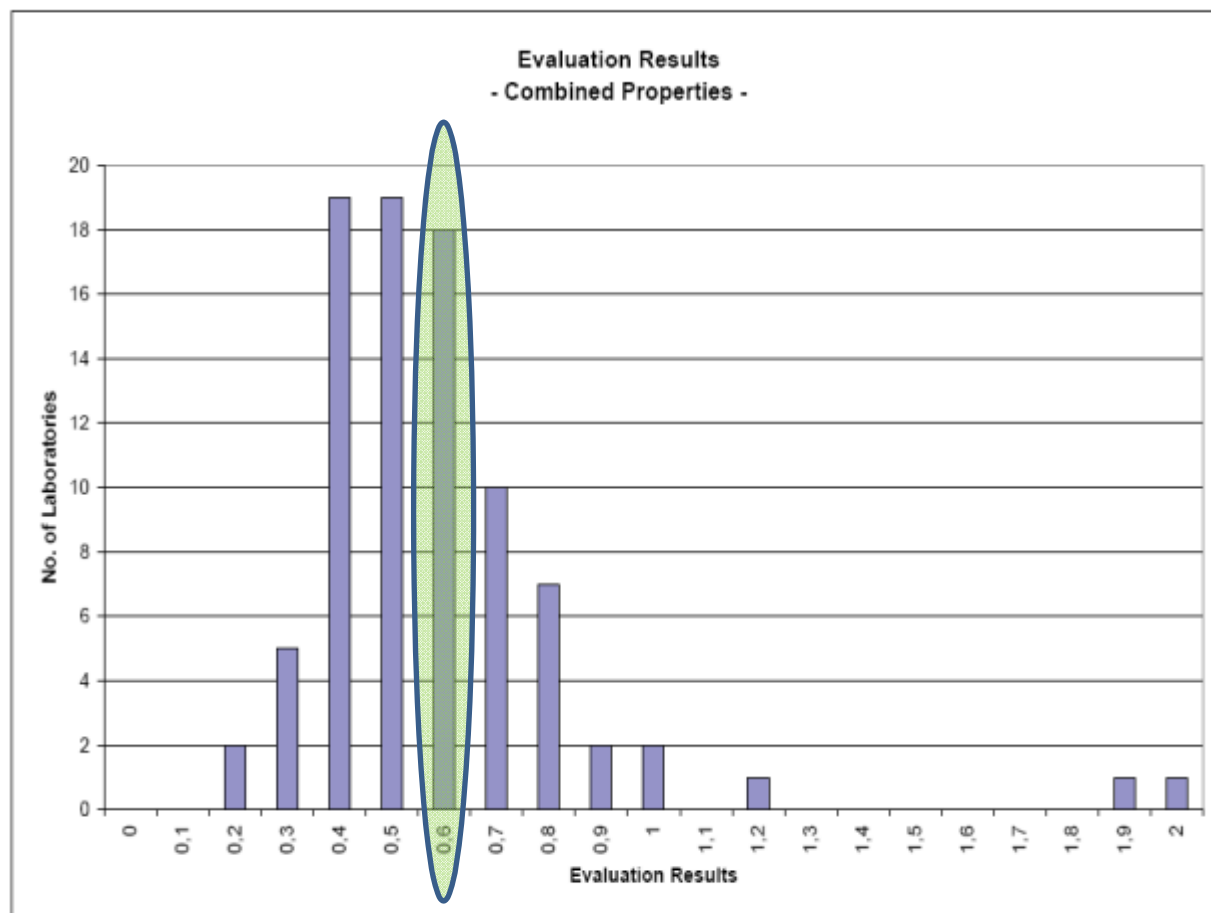
Moyenne de tous les laboratoires

Your instrument

Votre instrument




Example Exemple



x-Axis shows midpoints of classes

The evaluation results are entered based on the unrounded values

 Your instrument
Votre instrument



Example Exemple

Laboratory Evaluation

Lab.: 026-02

- Single Properties -

According to ICAC CSITC Task Force Recommendations

Round Trial No.: GL 2010-1

Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71

Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,66
Median	0,58	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18

ATTENTION !!!

All labs average

Moyenne de tous les laboratoires

Your instrument

Votre instrument



Example Exemple

Laboratory Evaluation

Lab.: 026-02

- Single Properties -

According to ICAC CSITC Task Force Recommendations

Round Trial No.: GL 2010-1

Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71

Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,66
Median	0,58	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18

No.	Lab. No	Evaluation Color Rd
61	030-01	0,85
62	027-01	0,86
63	088-01	0,86
64	059-06	0,91
65	072-01	0,94
66	023-01	0,96
67	074-01	0,99
68	089-01	1,00
69	079-01	1,03
70	061-01	1,03
71	029-01	1,04
72	059-05	1,05
73	086-01	1,06
74	086-03	1,07
75	026-02	1,08
76	030-01	1,14
77	047-01	1,17
78	057-01	1,35
79	044-01	1,35
80	076-01	1,38
81	038-01	1,46
82	050-01	1,58
83	056-01	1,69
84	064-01	1,69
85	033-01	2,31
86	078-02	2,39
87	078-01	2,58

ATTENTION !!!

All labs average

Moyenne de tous les laboratoires

Your instrument

Votre instrument



Example Exemple

Laboratory Evaluation

Lab.: 026-02

- Single Properties -

According to ICAC CSITC Task Force Recommendations

Round Trial No.: GL 2010-1

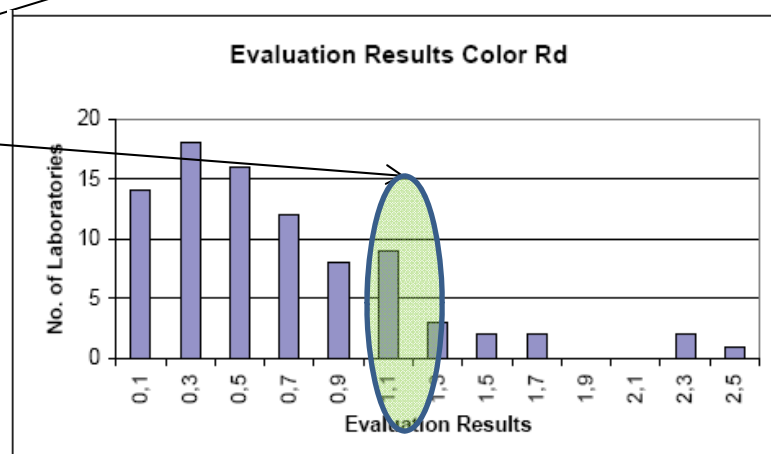
Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71

Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,66
Median	0,58	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18

No.	Lab. No	Evaluation Color Rd
61	030-01	0,85
62	027-01	0,86
63	088-01	0,86
64	059-06	0,91
65	072-01	0,94
66	023-01	0,96
67	074-01	0,99
68	089-01	1,00
69	079-01	1,03
70	061-01	1,03
71	029-01	1,04
72	059-05	1,05
73	086-01	1,06
74	086-03	1,07
75	026-02	1,08
76	030-01	1,14
77	047-01	1,17
78	057-01	1,35
79	044-01	1,35
80	076-01	1,38
81	038-01	1,46
82	050-01	1,58
83	056-01	1,69
84	064-01	1,69
85	033-01	2,31
86	078-02	2,39
87	078-01	2,58

ATTENTION !!!



All labs average

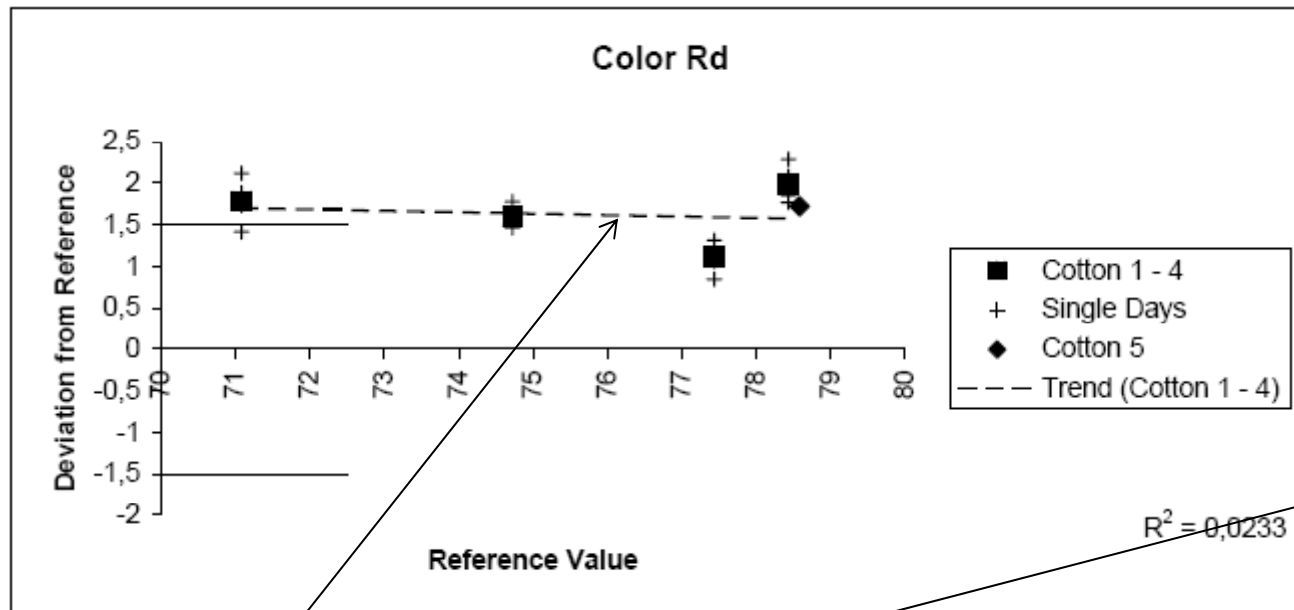
Moyenne de tous les laboratoires

Your instrument

Votre instrument

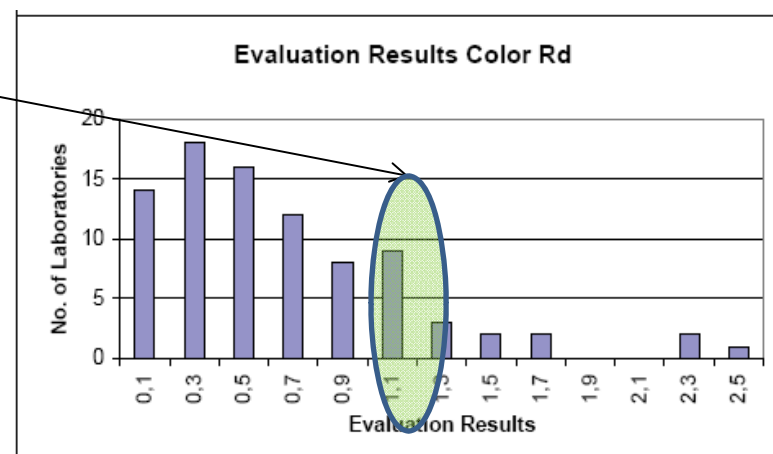


Example Exemple



No.	Lab. No	Evaluation Color Rd
61	030-01	0,85
62	027-01	0,86
63	088-01	0,86
64	059-06	0,91
65	072-01	0,94
66	023-01	0,96
67	074-01	0,99
68	089-01	1,00
69	079-01	1,03
70	061-01	1,03
71	029-01	1,04
72	059-05	1,05
73	086-01	1,06
74	086-03	1,07
75	026-02	1,08
76	030-01	1,14
77	047-01	1,17
78	057-01	1,35
79	044-01	1,35
80	076-01	1,38
81	038-01	1,46
82	050-01	1,58
83	056-01	1,69
84	064-01	1,69
85	033-01	2,31
86	078-02	2,39
87	078-01	2,58

ATTENTION !!!



All labs average

Moyenne de tous les laboratoires

Your instrument

Votre instrument



Plan of presentation

Plan de présentation

- Existing tests
- CSITC RT
- Data for one instrument
- Evaluation principle
- Charts
- Influences
- Example
- **Another example**
- On the long run
- Last minute...
- Tests actuels
- CSITC RT
- Données d'un instrument
- Principe d'évaluation
- Graphes
- Influences
- Exemple
- **Autre exemple**
- Dans le temps
- Dernière minute ...



Another example

Autre exemple

Strength									
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5	Remark
Reference Values for Evaluation			29,015	32,916	27,894	28,725		29,720	
Typical In-Lab. Variation (Median)	between different days with each 6 tests	SD	0,480	0,443	0,428	0,469	0,455	0,458	
	between single tests on one day	SD	0,585	0,658	0,555	0,532	0,583	0,649	
	between all tests on different days	SD	0,773	0,784	0,673	0,694	0,731	0,794	
In-Lab. Variation (Your Lab.)	between different days with each 6 tests	SD	0,524	1,027	0,488	0,292	0,583	0,590	
	between single tests on one day	SD	0,818	1,123	0,905	0,656	0,875	0,967	
	between all tests on different days	SD	0,990	1,407	1,016	0,675	1,022	1,087	

ATTENTION !!!

All labs average

Moyenne de tous les laboratoires

Your instrument

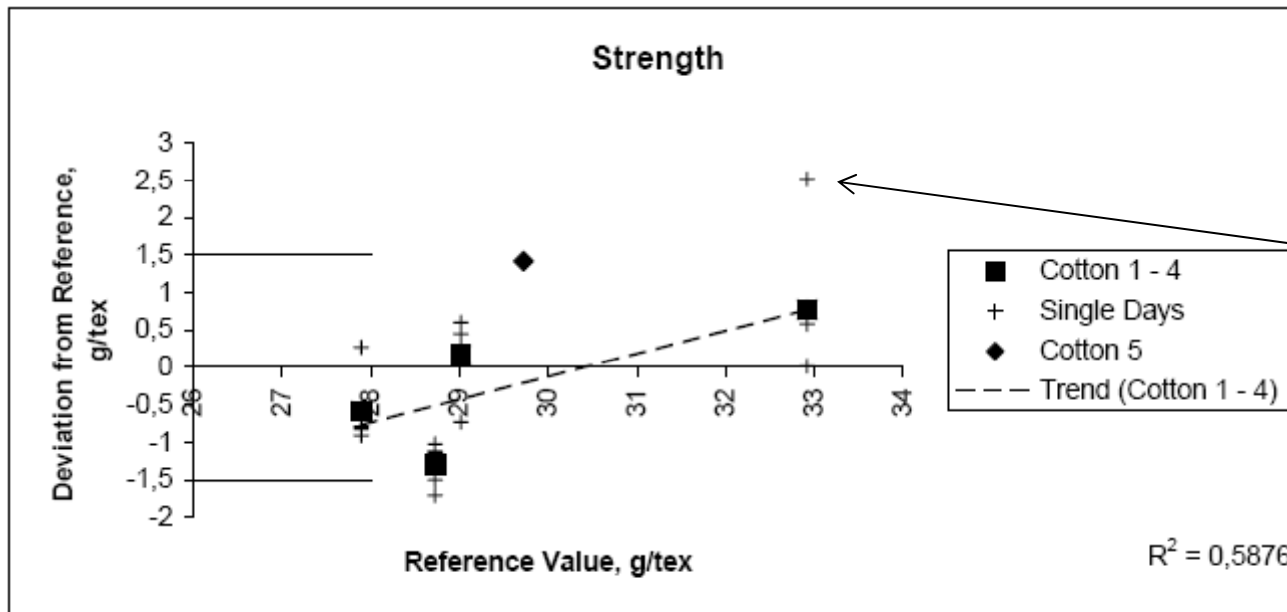
Votre instrument



Another example

Autre exemple

Strength									
Reference Values for Evaluation			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5	Remark
Typical In-Lab. Variation (Median)	between different days with each 6 tests	SD	0,480	0,443	0,428	0,469	0,455	0,458	
	between single tests on one day	SD	0,585	0,658	0,555	0,532	0,583	0,649	
	between all tests on different days	SD	0,773	0,784	0,673	0,694	0,731	0,794	
In-Lab. Variation (Your Lab.)	between different days with each 6 tests	SD	0,524	1,027	0,488	0,292	0,583	0,590	
	between single tests on one day	SD	0,818	1,123	0,905	0,656	0,875	0,967	
	between all tests on different days	SD	0,990	1,407	1,016	0,675	1,022	1,087	



ATTENTION !!!

All labs average

Moyenne de tous les laboratoires

Your instrument

Votre instrument



Another example

Autre exemple

CSITC Round Trial 2010-1							Cotton 2
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.39	31.6	1.17	83.7	78.3	11.7
	2	4.23	35	1.18	82.7	76.8	11.6
	3	4.33	32.3	1.15	82.9	78.5	11.6
	4	4.31	32.5	1.18	82.8	78.6	11.7
	5	4.37	33	1.16	82.4	78.3	11.6
	6	4.4	33.2	1.17	82.7	79.2	11.5
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.33	35	1.2	81.4	78.7	11.8
	2	4.31	36.1	1.2	83.8	78.6	11.7
	3	4.39	34.8	1.16	82.3	78.9	11.7
	4	4.34	34.6	1.18	83.5	78.3	11.6
	5	4.29	37.8	1.2	83	78.5	11.6
	6	4.28	34.3	1.19	82.1	78.7	11.6
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.29	34.3	1.19	82.1	79.2	11.7
	2	4.35	32.2	1.19	82.5	78.9	11.7
	3	4.3	32.9	1.16	82.7	78.8	11.6
	4	4.35	33.3	1.19	82.6	78.4	11.7
	5	4.33	33	1.17	82.7	78.9	11.8
	6	4.35	31.9	1.19	82.3	78.3	11.7
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.35	31.6	1.17	82.5	78.9	11.9
	2	4.3	34.2	1.21	82.8	78.8	11.7
	3	4.35	33.4	1.16	82.8	78.3	11.7
	4	4.25	33.5	1.18	82.3	78	11.6
	5	4.3	33.1	1.18	83.2	78.8	11.8
	6	4.37	35.2	1.19	82.2	78.2	11.6
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.32	34.5	1.21	83.3	78.8	11.7
	2	4.29	32.4	1.19	82.5	79.1	11.7
	3	4.28	33	1.2	82.9	78.8	11.5
	4	4.35	32.6	1.17	82.1	78.3	11.5
	5	4.3	34.7	1.19	83.8	78.4	11.6
	6	4.31	34.7	1.19	82.6	78.6	11.4

Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5	Remark
015	32,916	27,894	28,725		29,720	
480	0,443	0,428	0,469	0,455	0,458	
585	0,658	0,555	0,532	0,583	0,649	
773	0,784	0,673	0,694	0,731	0,794	
524	1,027	0,488	0,292	0,583	0,590	
818	1,123	0,905	0,656	0,875	0,967	
990	1,407	1,016	0,675	1,022	1,087	

ATTENTION !!!

All labs average

Moyenne de tous les laboratoires

Your instrument

Votre instrument



Another example

Autre exemple

CSITC Round Trial 2010-1				Cotton 2			
Day 1	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.39	31.6	1.17	83.7	78.3	11.7
	2	4.23	35	1.18	82.7	76.8	11.6
	3	4.33	32.3	1.15	82.9	78.5	11.6
	4	4.31	32.5	1.18	82.8	78.6	11.7
	5	4.37	33	1.16	82.4	78.3	11.6
	6	4.4	33.2	1.17	82.7	79.2	11.5
Day 2	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.33	35	1.2	81.4	78.7	11.8
	2	4.31	36.1	1.2	83.8	78.6	11.7
	3	4.39	34.8	1.16	82.3	78.9	11.7
	4	4.34	34.6	1.18	83.5	78.3	11.6
	5	4.29	37.8	1.2	83	78.5	11.6
	6	4.28	34.3	1.19	82.1	78.7	11.6
Day 3	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.29	34.3	1.19	82.1	79.2	11.7
	2	4.35	32.2	1.19	82.5	78.9	11.7
	3	4.3	32.9	1.16	82.7	78.8	11.6
	4	4.35	33.3	1.19	82.6	78.4	11.7
	5	4.33	33	1.17	82.7	78.9	11.8
	6	4.35	31.9	1.19	82.3	78.3	11.7
Day 4	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.35	31.6	1.17	82.5	78.9	11.9
	2	4.3	34.2	1.21	82.8	78.8	11.7
	3	4.35	33.4	1.16	82.8	78.3	11.7
	4	4.25	33.5	1.18	82.3	78	11.6
	5	4.3	33.1	1.18	83.2	78.8	11.8
	6	4.37	35.2	1.19	82.2	78.2	11.6
Day 5	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
	1	4.32	34.5	1.21	83.3	78.8	11.7
	2	4.29	32.4	1.19	82.5	79.1	11.7
	3	4.28	33	1.2	82.9	78.8	11.5
	4	4.35	32.6	1.17	82.1	78.3	11.5
	5	4.3	34.7	1.19	83.8	78.4	11.6
	6	4.31	34.7	1.19	82.6	78.6	11.4

Mean

32.9

Moyenne

Mean

35.4

Moyenne

Mean

32.9

Moyenne

Mean

33.5

Moyenne

Mean

33.6

Moyenne

Stdv

Ecart-type





Plan of presentation

Plan de présentation

- Existing tests
- CSITC RT
- Data for one instrument
- Evaluation principle
- Charts
- Influences
- Example
- Another example
- On the long run
- Last minute...

- Tests actuels
- CSITC RT
- Données d'un instrument
- Principe d'évaluation
- Graphes
- Influences
- Exemple
- Autre exemple
- Dans le temps
- Dernière minute ...



On the long run... at CIRAD

Dans le temps ... au CIRAD

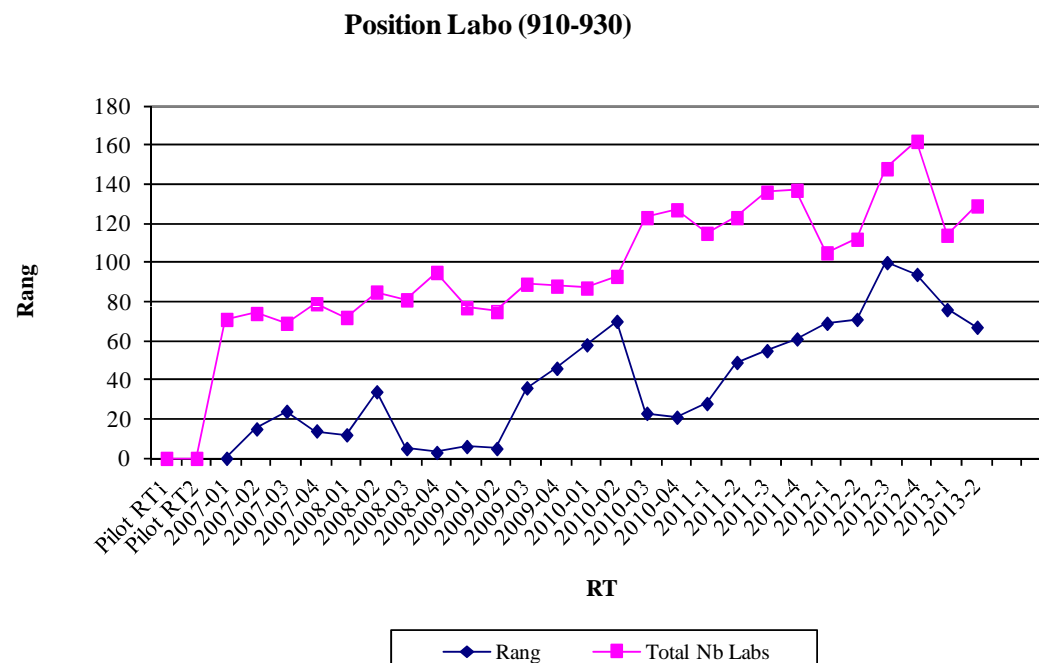
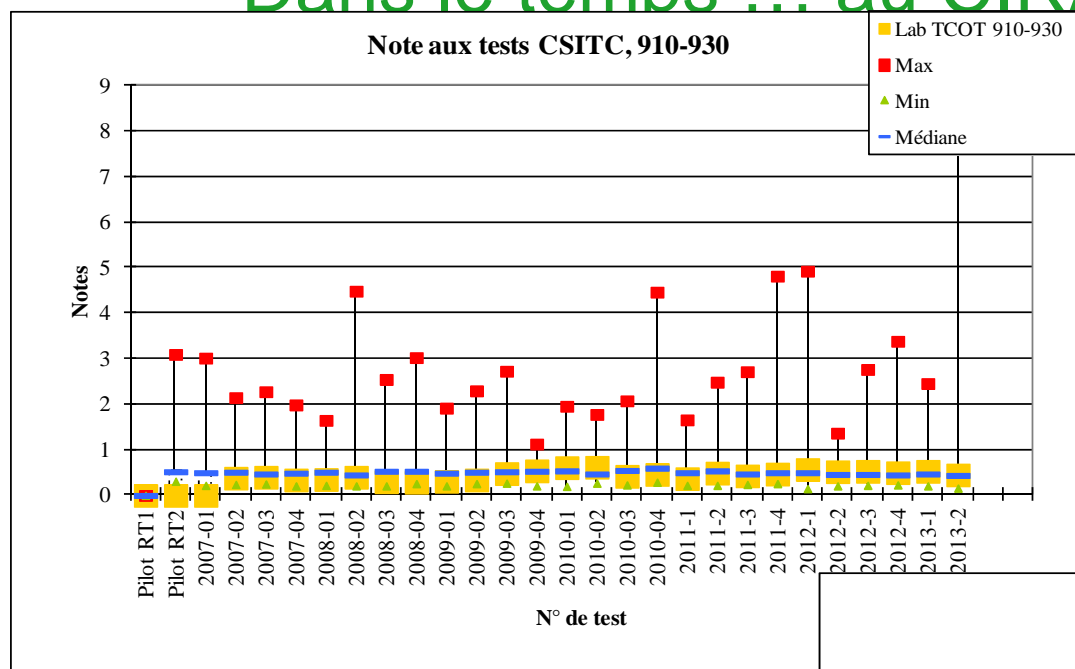
Année	Trimestre	Test n°	Lab N°	Eval Combine	Average	Median	Best	Worst	Rang	Total Nb Labs
2005		4 Pilot RT1	7							
2006		4 Pilot RT2	116	0.46	0.67	0.52	0.31	3.1		
2007	1	2007-01	71035-1	0.22	0.61	0.5	0.22	3.02	1	71
2007	2	2007-02	72041-1	0.43	0.57	0.51	0.24	2.15	15	74
2007	3	2007-03	73050-1	0.34	0.57	0.47	0.25	2.28	10	69
2007	4	2007-04	74015-1	0.39	0.58	0.49	0.21	1.99	18	79
2008	1	2008-01	81027-1	0.42	0.57	0.51	0.22	1.65	24	72
2008	2	2008-02	82044-1	0.34	0.59	0.45	0.21	4.49	18	85
2008	3	2008-03	83051-1	0.27	0.6	0.53	0.21	2.55	4	81
2008	4	2008-04	84052-1	0.34	0.66	0.53	0.26	3.03	6	95
2009	1	2009-01	91008-01	0.42	0.57	0.49	0.21	1.92	28	77
2009	2	2009-02	92047-01	0.35	0.62	0.51	0.26	2.3	9	75
2009	3	2009-03	93058-01	0.47	0.63	0.52	0.27	2.73	29	89
2009	4	2009-04	94008-01	0.31	0.57	0.53	0.21	1.13	6	88
2010	1	2010-01	01026-01	0.32	0.58	0.54	0.2	1.96	7	87

	Evaluations						Interprétation						
Test n°	Micronaire	Strength	Length	Uniformity	Rd	+b	Micronaire-Ra	Strength-Ran	Length-Rang	Uniformity-Ra	Rd-Rang	+b-Rang	
Pilot RT1													
Pilot RT2	0.53	0.63	0.23	0.63	0.49	0.29							
2007-01	0.44	0.32	0.12	0.1	0.15	0.16	30	9	3	2	6	8	
2007-02	0.43	0.91	0.36	0.36	0.27	0.24	22	62	35	46	22	16	
2007-03	0.41	0.44	0.34	0.43	0.14	0.27	28	31	31	45	3	20	
2007-04	0.23	0.83	0.31	0.26	0.36	0.37	9	65	35	24	25	30	
2008-01	0.34	0.77	0.52	0.18	0.42	0.3	28	53	49	12	31	25	
2008-02	0.16	0.92	0.57	0.16	0.19	0.07	10	71	64	8	13	1	
2008-03	0.09	0.47	0.09	0.53	0.15	0.3	1	39	1	61	3	20	
2008-04	0.22	0.59	0.3	0.22	0.43	0.27	14	62	29	15	37	17	
2009-01	0.15	0.67	0.91	0.41	0.12	0.3	4	52	67	41	2	23	
2009-02	0.49	0.47	0.36	0.28	0.16	0.35	40	42	35	17	3	18	
2009-03	0.34	0.69	0.68	0.22	0.42	0.49	29	59	64	19	28	47	
2009-04	0.1	0.34	0.79	0.14	0.08	0.4	3	31	77	9	2	28	
2010-01	0.37	0.59	0.55	0.16	0.13	0.12	23	56	63	7	4	4	



On the long run... at CIRAD

Dans le temps ... au CIRAD

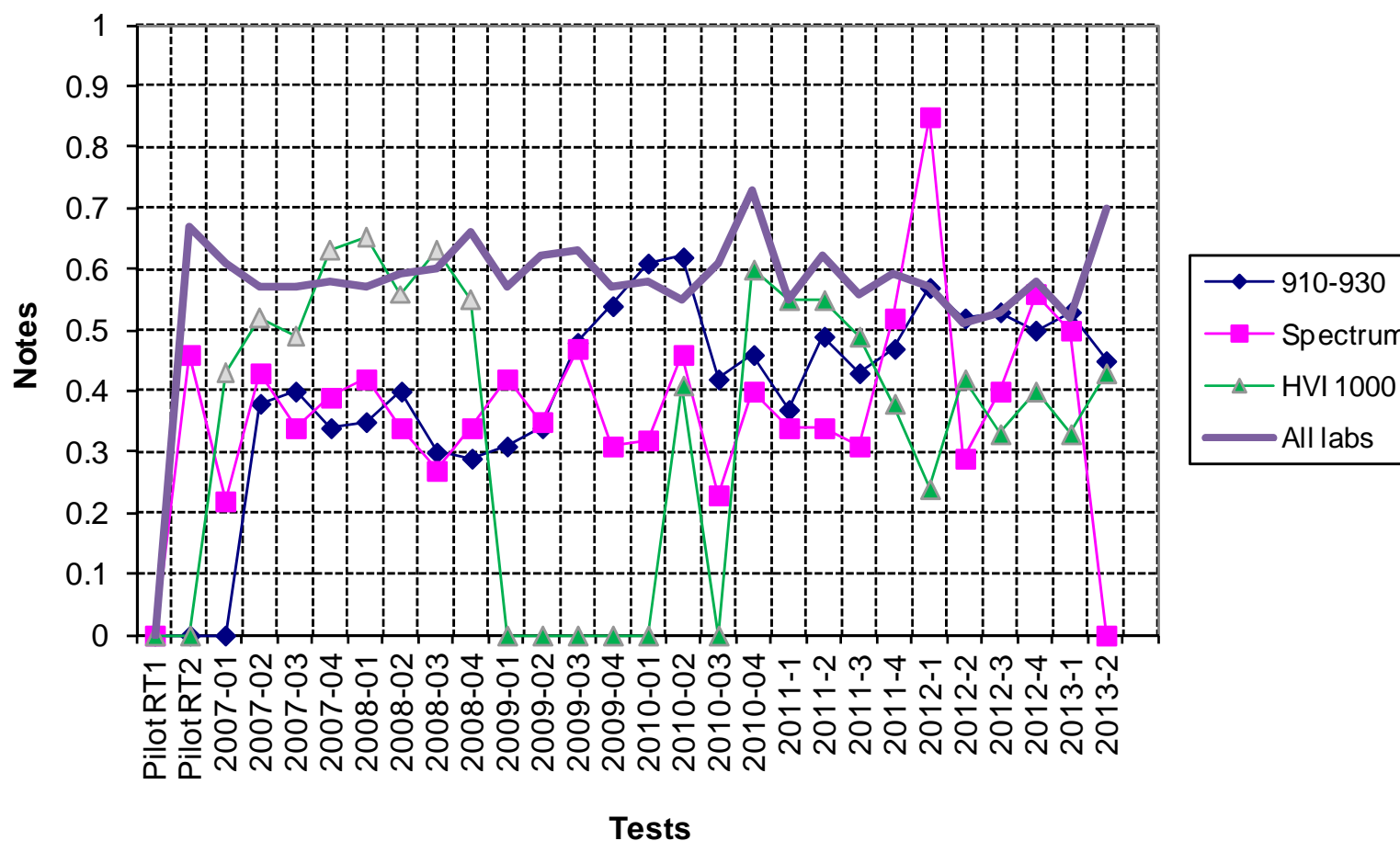




On the long run... at CIRAD

Dans le temps ... au CIRAD

Comparaison des "notes" CSITC entre appareils





On the long run... at CIRAD and for ISO17025

Dans le temps ... au CIRAD et pour ISO 17025

Pour les tests ICAC-CSITC, les informations typiques pour toutes les laboratoires sont (jusque 2011):

Caractéristique	Sd typiques	'Scale factor'	ratio (Z score / csitc)
IM	0.076	0.10	1.32
Strenght	1.056	1.50	1.42
UHML	0.012	0.02	1.67
UI	0.519	1.00	1.93
Rd	1.069	1.50	1.40
B	0.368	0.50	1.36

En conséquence, la relation entre 'notes' CSITC et Z scores est la suivante :

Caractéristique	Pour une note=1, alors le Z score =	Pour une note=2, alors le Z score =	Pour un Z score<2, la note CSITC doit être < à	Pour un Z score<3, la note CSITC doit être < à
IM	1.32	2.63	1.52	2.28
Strenght	1.42	2.84	1.41	2.11
UHML	1.67	3.33	1.20	1.80
UI	1.93	3.85	1.04	1.56
Rd	1.40	2.81	1.43	2.14
B	1.36	2.72	1.47	2.21



On www.csitc.org
Sur www.csitc.org

**Commercial Standardization
of Instrument Testing of Cotton**

 **International Cotton
Advisory Committee**



Round Trial Login
Login :
Password :
[login](#) [reset](#)

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[CSITC Round Trials](#)

[CSITC CFC/ICAC/33 Project](#)

[Technical information - Instrument testing](#)

[RTC Central Asia](#)

[RTC East Africa](#)

[RTC West Africa](#)

[Regions Without RTC](#)

[Project Partners](#)

**The ICAC Task Force**

The ICAC Task Force on CSITC was created after representatives of merchants and spinners agreed that an international agreement on the use of instrument based quality evaluation systems was needed to standardize quality test results.

[Read more.....](#)

**The CFC/ICAC/33 project**

The aim of the project, which is funded by the Common Fund for Commodities (CFC) and the European Union, aims to improve the integrity of worldwide cotton trade by establishing a reliable system of instrumental cotton characterisation, adoptable by all cotton producing countries, especially developing countries.

[Read more.....](#)

Latest News

[2nd QUARTER 2013 CSITC ROUND TRIAL COMPLETED on July 1](#) [Read more.....](#)


[CFC/ICAC/33 Final Technical Report and Variability Studies available for download;](#) [Read more.....](#)

[CSITC Guideline available for download in English, French, Spanish, Portuguese, Russian and Chinese](#)






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Sur www.csitc.org

Welcome, CIRAD:Coton

[logout](#) [settings](#)

[Lab Home](#) [Lab Info](#) [Instruments](#) [Trials](#) [Report Library](#) [CSITC.org](#)



Instruments

Ensure your instrument information is up to date

Popular tasks:

- View Trial Performance by Instrument
- View Registered Instruments
- Register a new instrument

1

more... >

Round Trials and Reports

Manage your participation in CSITC Round Trials

Popular tasks:

- Upload Results
- Submit Results to CSITC
- View Round Trial Participation Status
- Read and Download your Round Trial Results

3

more... >

Laboratory Info

Check and update the information about your Laboratory:

- Address and Contact Info
- User List

2

more... >

Performance Visualization

Documentation and Reports issued by CSITC

Popular tasks:

- Read Current and Historial Public Round Trial Results
- Find your lab specific result data

4

more... >



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Sur www.csitc.org

1

or



csitc round trials Welcome, CIRAD:Coton [logout](#) [settings](#) [Lab Home](#) [Lab Info](#) [Instruments](#) [Trials](#) [Report Library](#) [CSITC.org](#)

Registered Instruments [Add Instrument](#)

80582-Uster M700 Uster HVI 1000 Serial #: 80582 edit Trial Participation Summary 	HVI 900 Uster HVI 900 Serial #: 9100176 edit Trial Participation Summary 	HVI Spectrum Uster Spectrum Serial #: 00-01-009 edit Trial Participation Summary
--	--	--

Add/Edit Instrument ✕

Model:

Serial Number:

Year of Manufacture:

Alias:

Status:

[Save](#)



On www.csitc.org
Sur www.csitc.org

2

or



The screenshot shows the CSITC Laboratory Details page. The header bar is yellow and contains the CSITC logo, a welcome message for CIRAD:Coton, and navigation links: Lab Home, Lab Info, Instruments, Trials, Report Library, and CSITC.org. The main content area is titled 'Laboratory Details' and has an 'Info' tab selected. A 'Save' button is in the top right corner. The form is divided into two main sections: 'Shipping Address' and 'Contact'.

Shipping Address	
Contact Person:	Jean-Paul Gourlot
Lab Name:	CIRAD PERSYST LTC
Address line 1:	TA B 11/16
Address line 2:	73, rue Jean-Francois Breton
Address line 3:	34398 Montpellier Cedex 5
Address line 4:	
Country:	FRANCE

Contact	
Primary Contact:	jean-paul.gourlot@cirad.fr
Secondary Contact:	coton@cirad.fr
Phone:	33 (4) 67 61 58 75
Fax:	33 (4) 67 61 56 67

Other	
We do not wish to be identified as a CSITC Round Trial participant:	<input type="checkbox"/>
Default Temperature Scale:	--Select--



On www.csitc.org
Sur www.csitc.org

3

or



The screenshot shows the CSITC website interface. At the top, there is a navigation bar with links: Lab Home, Lab Info, Instruments, Trials, Report Library, and CSITC.org. Below the navigation bar, the user is logged in as CIRAD:Coton. The main content area displays the laboratory name: CIRAD PERSYST LTC. Under the 'Open Trials' section, there is a 'Global: Round Trial 2013-3' entry. This entry states that the user can enter results for 4 instruments and that the trial is due to close imminently. Two instrument entries are listed: '80582-Uster M700' and 'HVI 900'. Both entries show that results have been submitted to CSITC and provide a 'view details' button. At the bottom of the list, there is a section titled 'Enter new instrument results' with a warning icon and a button labeled 'enter/upload results'. This section is circled in red.

Welcome, CIRAD:Coton
logout settings

Lab Home Lab Info Instruments Trials Report Library CSITC.org

Laboratory: CIRAD PERSYST LTC

Open Trials

Global: Round Trial 2013-3
You may enter results for 4 instruments for this trial

This trial is due to close imminently. Please ensure all your results are uploaded.

Instrument: 80582-Uster M700
(Uster HVI 1000, SN# 80582)

✓ **Results Submitted to CSITC**
These results have been submitted to CSITC for evaluation and may not be changed.

Show result data
(checking/documentation)

view details

Instrument: HVI 900
(Uster HVI 900, SN# 9100176)

✓ **Results Submitted to CSITC**
These results have been submitted to CSITC for evaluation and may not be changed.

Show result data
(checking/documentation)

view details

⚠ Enter new instrument results
Please click the button below to start entering a new set of results.

enter/upload results



On www.csitc.org
Sur www.csitc.org

3 suite

▼ 3) Results

Choose a file to upload: Aucun fichier choisi

Upload

⚠ Upload data from a test instrument data file or by using the Excel template(s) ✕
If you have a **.dat** file from your Uster, or a **.txt** file from your Premier, or a filled Excel template as supplied on the CD together with the round trial samples, upload it here to populate the results

▶ Day 1	0 of 240 entered
▶ Day 2	0 of 240 entered
▶ Day 3	0 of 240 entered
▶ Day 4	0 of 240 entered
▶ Day 5	0 of 240 entered

▶ 4) Unmatched Results

Excel file as in slide 11

[Fichier Excel comme diapo 11](#)



On www.csitc.org
Sur www.csitc.org

3 suite

Ordre	Cotton	Day	Test	Code
1	1	1	1	C1D1T1
2	1	1	2	C1D1T2
3	1	1	3	C1D1T3
4	1	1	4	C1D1T4
5	1	1	5	C1D1T5
6	1	1	6	C1D1T6
7	2	1	1	C2D1T1
8	2	1	2	C2D1T2
9	2	1	3	C2D1T3
10	2	1	4	C2D1T4
11	2	1	5	C2D1T5
12	2	1	6	C2D1T6
13	3	1	1	C3D1T1
14	3	1	2	C3D1T2
15	3	1	3	C3D1T3
16	3	1	4	C3D1T4
17	3	1	5	C3D1T5
18	3	1	6	C3D1T6
19	4	1	1	C4D1T1
20	4	1	2	C4D1T2
21	4	1	3	C4D1T3
22	4	1	4	C4D1T4
23	4	1	5	C4D1T5
24	4	1	6	C4D1T6
25	5	1	1	C5D1T1
26	5	1	2	C5D1T2
27	5	1	3	C5D1T3
28	5	1	4	C5D1T4
29	5	1	5	C5D1T5
30	5	1	6	C5D1T6

Ordre	Cotton	Day	Test	Code
31	1	2	1	C1D2T1
32	1	2	2	C1D2T2
33	1	2	3	C1D2T3
34	1	2	4	C1D2T4
35	1	2	5	C1D2T5
36	1	2	6	C1D2T6
37	2	2	1	C2D2T1
38	2	2	2	C2D2T2
39	2	2	3	C2D2T3
40	2	2	4	C2D2T4
41	2	2	5	C2D2T5
42	2	2	6	C2D2T6
43	3	2	1	C3D2T1
44	3	2	2	C3D2T2
45	3	2	3	C3D2T3
46	3	2	4	C3D2T4
47	3	2	5	C3D2T5
48	3	2	6	C3D2T6
49	4	2	1	C4D2T1
50	4	2	2	C4D2T2
51	4	2	3	C4D2T3
52	4	2	4	C4D2T4
53	4	2	5	C4D2T5
54	4	2	6	C4D2T6
55	5	2	1	C5D2T1
56	5	2	2	C5D2T2
57	5	2	3	C5D2T3
58	5	2	4	C5D2T4
59	5	2	5	C5D2T5
60	5	2	6	C5D2T6

Ordre	Cotton	Day	Test	Code
61	1	3	1	C1D3T1
62	1	3	2	C1D3T2
63	1	3	3	C1D3T3
64	1	3	4	C1D3T4
65	1	3	5	C1D3T5
66	1	3	6	C1D3T6
67	2	3	1	C2D3T1
68	2	3	2	C2D3T2
69	2	3	3	C2D3T3
70	2	3	4	C2D3T4
71	2	3	5	C2D3T5
72	2	3	6	C2D3T6
73	3	3	1	C3D3T1
74	3	3	2	C3D3T2
75	3	3	3	C3D3T3
76	3	3	4	C3D3T4
77	3	3	5	C3D3T5
78	3	3	6	C3D3T6
79	4	3	1	C4D3T1
80	4	3	2	C4D3T2
81	4	3	3	C4D3T3
82	4	3	4	C4D3T4
83	4	3	5	C4D3T5
84	4	3	6	C4D3T6
85	5	3	1	C5D3T1
86	5	3	2	C5D3T2
87	5	3	3	C5D3T3
88	5	3	4	C5D3T4
89	5	3	5	C5D3T5
90	5	3	6	C5D3T6

Ordre	Cotton	Day	Test	Code
91	1	4	1	C1D4T1
92	1	4	2	C1D4T2
93	1	4	3	C1D4T3
94	1	4	4	C1D4T4
95	1	4	5	C1D4T5
96	1	4	6	C1D4T6
97	2	4	1	C2D4T1
98	2	4	2	C2D4T2
99	2	4	3	C2D4T3
100	2	4	4	C2D4T4
101	2	4	5	C2D4T5
102	2	4	6	C2D4T6
103	3	4	1	C3D4T1
104	3	4	2	C3D4T2
105	3	4	3	C3D4T3
106	3	4	4	C3D4T4
107	3	4	5	C3D4T5
108	3	4	6	C3D4T6
109	4	4	1	C4D4T1
110	4	4	2	C4D4T2
111	4	4	3	C4D4T3
112	4	4	4	C4D4T4
113	4	4	5	C4D4T5
114	4	4	6	C4D4T6
115	5	4	1	C5D4T1
116	5	4	2	C5D4T2
117	5	4	3	C5D4T3
118	5	4	4	C5D4T4
119	5	4	5	C5D4T5
120	5	4	6	C5D4T6

Ordre	Cotton	Day	Test	Code
121	1	5	1	C1D5T1
122	1	5	2	C1D5T2
123	1	5	3	C1D5T3
124	1	5	4	C1D5T4
125	1	5	5	C1D5T5
126	1	5	6	C1D5T6
127	2	5	1	C2D5T1
128	2	5	2	C2D5T2
129	2	5	3	C2D5T3
130	2	5	4	C2D5T4
131	2	5	5	C2D5T5
132	2	5	6	C2D5T6
133	3	5	1	C3D5T1
134	3	5	2	C3D5T2
135	3	5	3	C3D5T3
136	3	5	4	C3D5T4
137	3	5	5	C3D5T5
138	3	5	6	C3D5T6
139	4	5	1	C4D5T1
140	4	5	2	C4D5T2
141	4	5	3	C4D5T3
142	4	5	4	C4D5T4
143	4	5	5	C4D5T5
144	4	5	6	C4D5T6
145	5	5	1	C5D5T1
146	5	5	2	C5D5T2
147	5	5	3	C5D5T3
148	5	5	4	C5D5T4
149	5	5	5	C5D5T5
150	5	5	6	C5D5T6

Excel file as in slide 11
[Fichier Excel comme diapo 11](#)



On www.csitc.org
Sur www.csitc.org

3 suite

or



The screenshot displays the CSITC (CIRAD Sustainable Trials) website. The top navigation bar includes links for Lab Home, Lab Info, Instruments, Trials, Report Library, and CSITC.org. The main content area shows the user is logged in as CIRAD:Coton. A red circle highlights the 'Open Trials' button. Below this, the 'Global: Round Trial 2013-3' section is visible, with a warning that the trial is due to close imminently. Two instrument entries are listed: '80582-Uster M700' and 'HVI 900'. Each entry shows 'Results Submitted to CSITC' and includes a 'view details' button, which is circled in red for both. At the bottom, there is a section to 'Enter new instrument results' with an 'enter/upload results' button.

Welcome, CIRAD:Coton
logout settings

Lab Home Lab Info Instruments Trials Report Library CSITC.org

Laboratory: CIRAD PERSYST LTC

Open Trials

Global: Round Trial 2013-3
You may enter results for 4 instruments for this trial

This trial is due to close imminently. Please ensure all your results are uploaded.

Instrument: 80582-Uster M700
(Uster HVI 1000, SN# 80582)

✓ **Results Submitted to CSITC**
These results have been submitted to CSITC for evaluation and may not be changed.

Show result data
(checking/documentation)

view details

Instrument: HVI 900
(Uster HVI 900, SN# 9100176)

✓ **Results Submitted to CSITC**
These results have been submitted to CSITC for evaluation and may not be changed.

Show result data
(checking/documentation)

view details

Enter new instrument results
Please click the button below to start entering a new set of results.

enter/upload results



On www.csitc.org
Sur www.csitc.org

3 suite

or



The screenshot shows the CSITC (Computerized System for Instrument Trial Control) web application interface. The top navigation bar includes the CSITC logo, a welcome message for CIRAD:Gourlot, and links for Lab Home, Lab Info, Instruments, Trials, Report Library, and CSITC.org. A 'Close' button is visible in the top left corner of the main content area.

A yellow information box contains the following instructions:

- **Reset Results:** Clear the result data only.
- **Reset Questionnaire and Results:** Delete all data for this trial/instrument and start over.
- **Submit Final Results:** Finally submit your results to CSITC. After final submission, you can not change the results any more and they will be included in the evaluation.
- **Save:** Save your results to the database for your further editing. You can return and continue updating results until you submit them for evaluation. Submission for evaluation is done by choosing "Submit final results" only. Using the "Save" button stores results in the database, but these results will not be included in the evaluation until you submit them finally!
- **Close:** Close this page and return to the list of trials.

The main content area displays the trial information: "Global: Round Trial 2013-3" and "80582-Uster M700 (80582 - Uster HVI 1000)".

Under the "1) Instrument Details" section, there is a "Select Instrument:" label and a dropdown menu showing "80582-Uster M700 (80582)". Below this, there is a checkbox labeled "Load previous questionnaire data on save (existing data will be over-written!)" which is currently unchecked.

At the bottom, there are four expandable sections: "2) Questionnaire", "3) Results", and "4) Unmatched Results".



On www.csitc.org
Sur www.csitc.org

3 suite

2) Questionnaire

Instrument settings

Instrument software version: 3.1.3.18

Sample comb preparation: Automatic

Moisture Conditioning

Internal Moisture Check used: Yes

Moisture Correction used (NOT RECOMMENDED): No

Moisture Conditioning Method: Rapid Exposure

Length of Conditioning: at least 24 to max 48 hour

Conditioning Standard:

- ☐ ABNT
- ☐ ASTM D 1776
- ☒ ISO139
- ☐ Other

If other, please enter details here:

Accreditation/Certification

ISO 17025: Yes

Other: --Select--

If other, please enter details here:

Standard Test Method

Standard Test Method Used: ASTM D 5867-05

Additionally Respected Guidelines:

- ☐ ABNT Guidelines
- ☐ CSITC/ICCTM Guideline Instr. Testing
- ☐ ITMF HWI user Guide
- ☐ Other
- ☒ USDA Guidelines for HWI Testing
- ☒ USTER Guidelines

If other, please enter details here:

Nominal Temperature: 20
Celcius

Temperature Range: +/- 2
Celcius

Nominal rel. humidity: 65 %

Humidity Range: +/- 4 %

Number of tests per result line for
micronaire (recommendation 1): 1

Number of combs per result line for
length/strength (recommendation 2): 2

Number of tests per result line for
color (recommendation 2): 2



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3 suite

Standard Material

Short/Weak Calibration Cotton

Manufactured By/Received From:

Type of Cotton:

Date of Acquisition:

Cotton Calibration Identification No:

Expiry Date:

Micronaire Calibration Cotton (Low)

Manufactured By/Received From:

Type of Cotton:

Date of Acquisition:

Cotton Calibration Identification No:

Production Date/Expiry Date:

Color Standard Tiles

Manufactured by:

Tile No.:

Date of Acquisition/Verification:

Long/Strong Calibration Cotton

Manufactured By/Received From:

Type of Cotton:

Date of Acquisition:

Cotton Calibration Identification No:

Expiry Date:

Micronaire Calibration Cotton (High)

Manufactured By/Received From:

Type of Cotton:

Date of Acquisition:

Cotton Calibration Identification No:

Production Date/Expiry Date:



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Sur www.csitc.org

3 suite

Global: Round Trial 2013-3							80582-Uster M700 (80582 - Uster HVI 1000)			
▶ 1) Instrument Details										
▶ 2) Questionnaire										
▼ 3) Results										
▼ Day 1										240 of 240 entered
							Temperature	20.8 °C	Relative Humidity	62 %
Sample 1 (60 of 60) Sample 2 (60 of 60) Sample 3 (60 of 60) Sample 4 (60 of 60)										
	Mic	Str	Len	Unf	Rd	+b	T.Cnt	T.Area	Mat	SFI
Test 1	5.294663	28.40616	0.996608	79.07769	80.30527	9.023516	25	0.257979	89.25473	11.35382
Test 2	5.255911	27.25129	1.016309	79.40788	79.93186	8.926006	42	0.333164	89.18718	11.1347
Test 3	5.250513	26.70199	1.002524	78.66057	79.69426	8.869346	26	0.246199	88.86803	11.10316
Test 4	5.257481	26.17094	1.008388	78.78117	80.10212	8.922829	14	0.283272	88.88312	10.26957
Test 5	5.253514	27.60452	1.024709	78.25801	79.9716	8.787976	15	0.229222	88.88898	11.01147
Test 6	5.249609	27.91973	1.009203	79.42717	80.04436	8.766757	31	0.235459	88.95462	10.76511
▶ Day 2										240 of 240 entered
▶ Day 3										240 of 240 entered
▶ Day 4										240 of 240 entered
▶ Day 5										240 of 240 entered



On www.csitc.org
Sur www.csitc.org

3 suite

▼ 4) Unmatched Results

⚠ Unmatched Results

If you have uploaded results from your test instrument, and the system was unable to accurately interpret which Day, Sample and/or Test a result related to, then it will be displayed here. You can Drag and Drop the result row on to the correct Day/Sample/Test in the list on the right hand side, and the figures will update the results tables.

Description	Mic	Str	Len	Unf	Rd	+b	T.Cnt	T.Area	Mat	SFI
-------------	-----	-----	-----	-----	----	----	-------	--------	-----	-----

▼ Day 1

▼ Sample 1

Test 1View

Test 2View

Test 3View

Test 4View

Test 5View

Test 6View

▶ Sample 2

▶ Sample 3

▶ Sample 4

▶ Day 2

▶ Day 3

▶ Day 4

▶ Day 5



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Sur www.csitc.org

3 suite

3) Results

Day 1

144 of 240 entered

Temperature 21.3 °C

Relative Humidity 61 %

Sample 1 (36 of 60)

Sample 2 (36 of 60)

Sample 3 (36 of 60)

Sample 4 (36 of 60)

	Mic	Str	Len	Unf	Rd	+b	T.Cnt	T.Area	Mat	SFI
Test 1	5.29	26.2	1.0039370	80.2	79.1	8.5				
Test 2	5.26	26.2	0.9881889	78.9	79.3	8.3				
Test 3	5.25	25.9	0.9842519	80.3	79	8.6				
Test 4	5.26	26.6	1.0039370	80.5	79	8.6				
Test 5	5.25	26.1	0.9960629	79.9	79.1	8.5				
Test 6	5.25	27.3	0.9881889	78.9	79.1	8.4				

Day 2

144 of 240 entered

Day 3

144 of 240 entered

Day 4

144 of 240 entered

Day 5

144 of 240 entered

4) Unmatched Results



On www.csitc.org
Sur www.csitc.org

3 suite

or

Welcome, CIRAD:Coton
logout settings

Lab Home Lab Info Instruments Trials Report Library CSITC.org

Laboratory: CIRAD PERSYST LTC

Open Trials

Closed Trials

Global: Round Trial 2014 [View Details](#)

Global: Round Trial 2013 [Hide Details](#)

		INSTRUMENT EVALUATIONS			STATISTICS				DIY Unofficial Evaluation
	Lab Number	3 (80582-Uster M700)	2 (HVI 900)	1 (HVI Spectrum)	Average	Median	Best Score	Worst Score	
2013-2	GL132063	0.43	0.45	-	0.70	0.44	0.16	7.66	
2013-1	GL131056	0.33	0.53	0.50	0.52	0.47	0.21	2.46	

Instrument Info: Uster HVI 1000 S/N: 80582 Uster HVI 900 S/N: 9100176 Uster Spectrum S/N: 08-01-009

Global: Round Trial 2012 [View Details](#)

Global: Round Trial 2011 [View Details](#)

Global: Round Trial 2010 [View Details](#)

Your results and access to files
Vos résultats et accès aux fichiers

Overall results

Résultats globaux



On www.csitc.org
Sur www.csitc.org

3 suite

or



csitc round trials Welcome, CIRAD:Coton [Lab Home](#) [Lab Info](#) [Instruments](#) [Trials](#) [Report Library](#) [CSITC.org](#) [FIBRE](#)

Laboratory: CIRAD PERSYST LTC

[Open Trials](#)

Closed Trials

Global: Round Trial 2014 [View Details](#)

Global: Round Trial 2013 [Hide Details](#)

Lab Number		INSTRUMENT EVALUATIONS			STATISTICS				DIY Unofficial Evaluation	
		3 (80582-Uster M700)	2 (HVI 900)	1 (HVI Spectrum)	Average	Median	Best Score	Worst Score		
	2013-2 GL132063	0.43	0.45	-	0.70	0.44	0.16	7.66		
	2013-1 GL131056	0.33	0.53	0.50	0.52	0.47	0.21	2.46		
Instrument Info:		Uster HVI 1000 S/N: 80582	Uster HVI 900 S/N: 9100176	Uster Spectrum S/N: 00-01-009						

Global: Round Trial 2012 [View Details](#)

Global: Round Trial 2011 [View Details](#)

Global: Round Trial 2010 [View Details](#)

To redo any unofficial evaluation

Pour refaire une évaluation officielle



On the long run... on www.csitc.org
Dans le temps ... sur www.csitc.org

4

or

The screenshot shows the CSITC web application interface. At the top is a yellow navigation bar with the CSITC logo, a welcome message for CIRAD:Gourlot, and links for Lab Home, Lab Info, Instruments, Trials, Report Library, and CSITC.org. Below this is a 'Reports' section with a yellow box containing instructions: 'More Reports are coming. In the meantime use this application to analyse results:' followed by a list of actions like double-clicking trials, using filters, and dragging instruments. The main content area is titled 'csitc task force round trials 1.30' and includes a 'Reset' button. It features a 'Drag & Drop' area on the left and a 'Detail Level' panel on the right with radio buttons for 'Trial' and 'Instrument'. Annotations with red circles and arrows point to the left and right arrow buttons in the Drag & Drop area, explaining their functions in French. At the bottom, a section for 'Over Time Analysis or Evaluation Result' is circled in red, with the text 'Charts' and 'Graphes' below it.

csitc round trials Welcome, CIRAD:Gourlot logout settings Lab Home Lab Info Instruments Trials Report Library CSITC.org

Reports

More Reports are coming. In the meantime use this application to analyse results:

- Double click a round trial to see the instruments that participated in that trial
- use the the slide-in/out filter options on the left to select different test parameters
- use the the slide-in/out filter options on the right to switch between Round Trial and Instrument results
- Drag one or more instruments to the bottom graph to see their performance over time
- Click on a legend label colour to remove it from the analysis
- Press the Reset button to start over

csitc task force round trials 1.30 Reset empower your data g10 d

Drag & Drop

To display/hide trials or instrument
Pour afficher/masquer essais ou instruments

To select characteristics
Pour choisir les caractéristiques

Detail Level

- ☒ Trial
- ☐ Instrument

Over Time Analysis or Evaluation Result

Charts
Graphes



On the long run... on www.csitc.org
Dans le temps ... sur www.csitc.org

4 suite

The screenshot displays the CSITC Task Force Round Trials interface. The top section is titled 'Round Trial Overview of Evaluation Result'. The bottom section, titled 'Over Time Analysis of Evaluation Result', contains a 'Charts Graphes' area. This section is highlighted with a red oval. Below this, there are two red arrows pointing to the 'To change ending date' and 'Pour changer date de fin' text. At the bottom left, there is a red circle around a small icon, with two red arrows pointing to the 'To change starting date' and 'Pour changer date de départ' text. The interface also features a 'Reset' button and a 'g10 d' logo in the top right corner.

csitc task force round trials 1.30

Reset

empower your data g10 d

Round Trial Overview of Evaluation Result

Over Time Analysis of Evaluation Result

Charts
Graphes

To change ending date
Pour changer date de fin

To change starting date
Pour changer date de départ



On the long run... sur www.csitc.org

Dans le temps ... sur www.csitc.org



Plan of presentation

Plan de présentation

- Existing tests
 - CSITC RT
 - Data for one instrument
 - Evaluation principle
 - Charts
 - Influences
 - Example
 - Another example
 - On the long run
 - Last minute...
- Tests actuels
 - CSITC RT
 - Données d'un instrument
 - Principe d'évaluation
 - Graphes
 - Influences
 - Exemple
 - Autre exemple
 - Dans le temps
 - Dernière minute ...



On the long run...

Dans le temps ...

■ Use of csitc.org

■ Utilisation du csitc.org

[CSITC-RoundTrial-instructions-2s.pdf](#)



**Merci de
votre
attention**